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* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *
* * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 06:52:58 ON 08 FEB 2006

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Uploading C:\Program Files\Stnexp\Queries\amended616959.str
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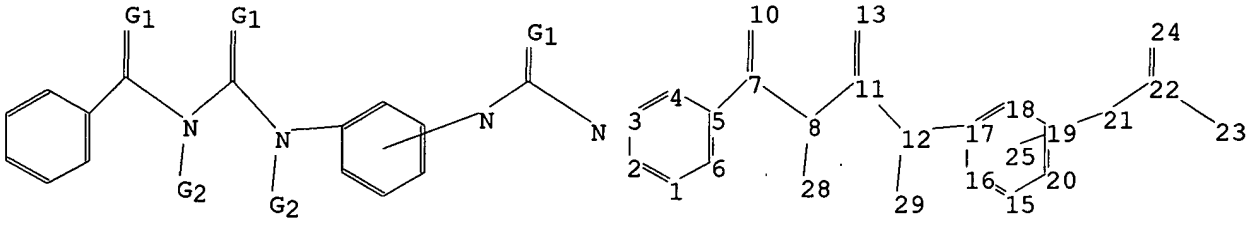


```
chain nodes :
7  8  10  11  12  13  21  22  24  28  29
ring nodes :
1  2  3  4  5  6  15  16  17  18  19  20
ring/chain nodes :
23
chain bonds :
5-7  7-8  7-10  8-11  8-28  11-12  11-13  12-17  12-29  21-22  22-23  22-24
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  15-16  15-20  16-17  17-18  18-19  19-20
exact/norm bonds :
7-8  7-10  8-11  8-28  11-12  11-13  12-17  12-29  21-22  22-23  22-24
exact bonds :
5-7
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6  15-16  15-20  16-17  17-18  18-19  19-20
isolated ring systems :
containing 1 : 15 :


G1:O,S

G2:Ak,H

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:CLASS  10:CLASS
11:CLASS  12:CLASS  13:CLASS  15:Atom  16:Atom  17:Atom  18:Atom  19:Atom  20:Atom
21:CLASS  22:CLASS  23:CLASS  24:CLASS  25:CLASS  28:CLASS  29:CLASS



L1      STRUCTURE UPLOADED

=>  dis l1
L1 HAS NO ANSWERS
L1              STR
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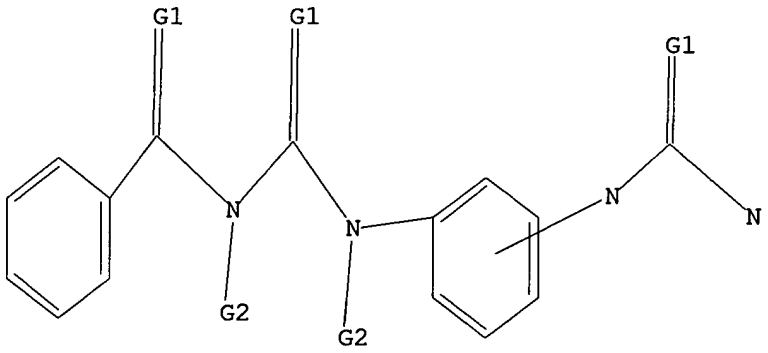

G1 O,S

G2 Ak,H

Structure attributes must be viewed using STN Express query preparation.

```
=> s l1 sam
L2            19 SEA SSS SAM L1

=> s l1 full
L3           358 SEA SSS FUL L1

=> file caplus
=> s l3
L4            26 L3

=> s l4 and pd<july 2002
      22609388 PD<JULY 2002
                 (PD<20020700)
L5            22 L4 AND PD<JULY 2002

=> dis l5 1-22 bib  abs hitstr

L5   ANSWER 1 OF 22  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2002:506002  CAPLUS
DN   137:370017
TI   A facile synthesis of p-Bis(4-thiazolidinon-3-yl)phenylenes and related
     systems
AU   Abdel-Megid, M.; Awas, M. A. A.
CS   Chemistry Department, Faculty of Education, Ain-Shams University, Cairo,
     Egypt
SO   Heterocyclic Communications (2002), 8(2), 161-168
     CODEN: HCOMEX; ISSN: 0793-0283
PB   Freund Publishing House Ltd.
DT   Journal
LA   English
OS   CASREACT 137:370017
GI
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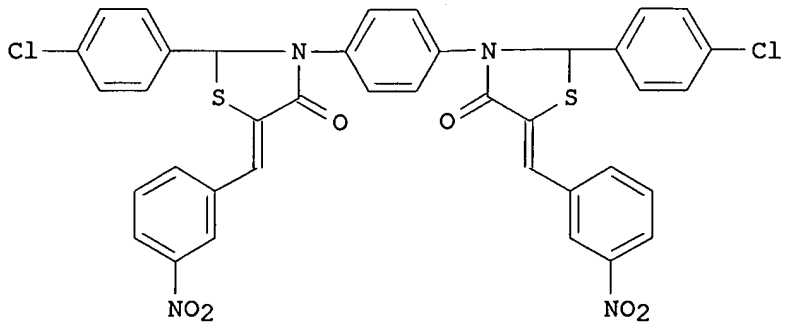
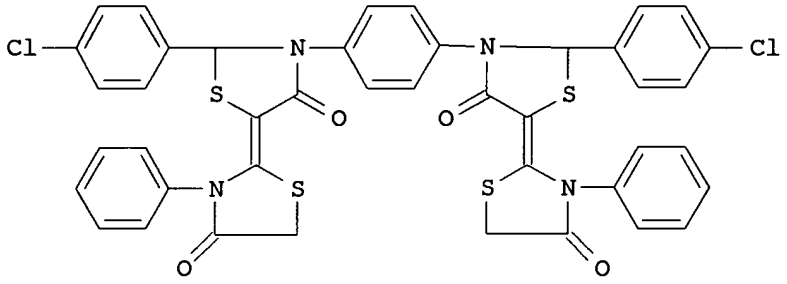


I



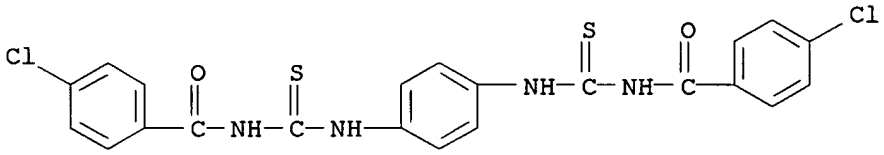
II

AB P-Bis(4-thiazolidinon-3-yl)phenylenes, e.g., I and II, were synthesized by cycloaddn. of thioglycolic acid with Schiff bases of p-phenylenediamine or by treatment of p-bis(thioureido)phenylenes with Et chloroacetate. Reactions of hydrazines, hydroxylamine, acetamidine and N-phenylthiourea with I and II were reported. Some of the new compds. were tested for their effect on cellobiase, produced by thermophilic fungi.

IT **493026-96-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of p-bis(4-thiazolidinon-3-yl)phenylenes and related systems and their effect on fungal cellobiase)

RN 493026-96-3 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[4-chloro- (9CI) (CA INDEX NAME)



RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:437635 CAPLUS

DN 138:137007

TI Phase transfer catalytic synthesis of phenylene-1,4-bis-aroyl(aryloxyacetyl)thiourea derivatives

AU Deng, Hong-tao; Ye, Wen-fa; Wang, Yan-gang

CS Department of Chemistry, Central China Normal University, Wuhan, 430079, Peop. Rep. China

SO Huazhong Shifan Daxue Xuebao Zirankexueban (**2002**), 36(1), 58-60
CODEN: HDZKEL; ISSN: 1000-1190

PB Huazhong Shifan Daxue Xuebao Bianjibu

DT Journal

LA Chinese

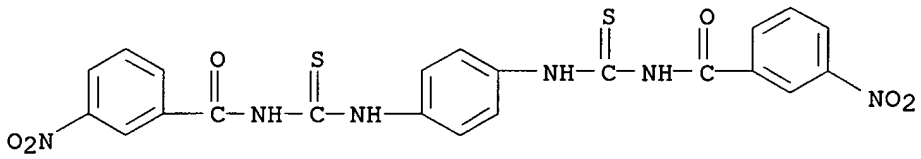
OS CASREACT 138:137007

AB Using p-phenylenediamine and aromatic acid or aryloxyacetic acid as raw materials, PEG-600 as catalyst, ten new phenylene-1,4-bis-aroyl(aryloxyacetyl)thiourea derivs. have been synthesized by solid-liquid phase transfer catalysis. Title compds. showed plant growth regulator activities.

IT **331862-02-3P 493026-92-9P 493026-94-1P**
493026-96-3P 493026-98-5P 493027-01-3P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(phase transfer catalytic synthesis of phenylene-1,4-bis-aroyl(aryloxyacetyl)thiourea derivs.)

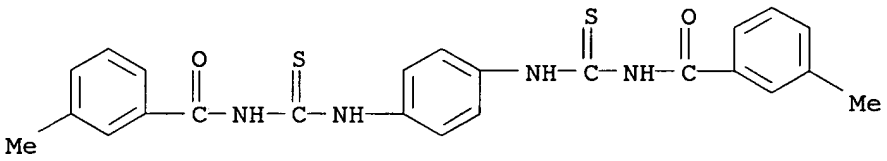
RN 331862-02-3 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[3-nitro- (9CI) (CA INDEX NAME)



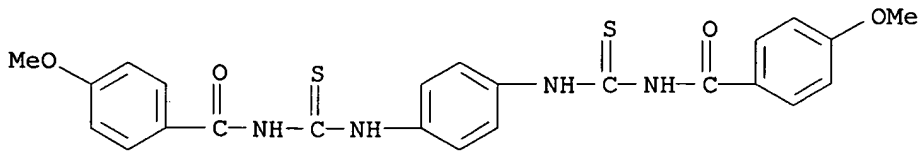
RN 493026-92-9 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[3-methyl- (9CI) (CA INDEX NAME)

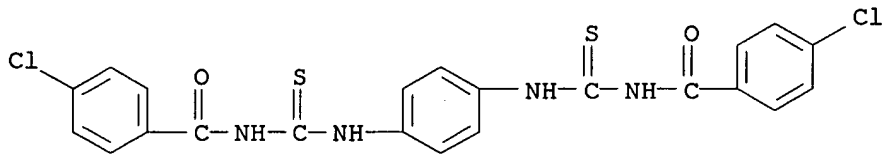


RN 493026-94-1 CAPLUS

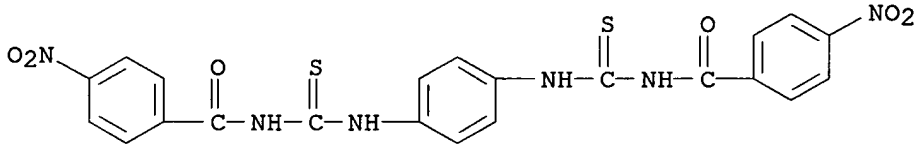
CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[4-methoxy- (9CI) (CA INDEX NAME)



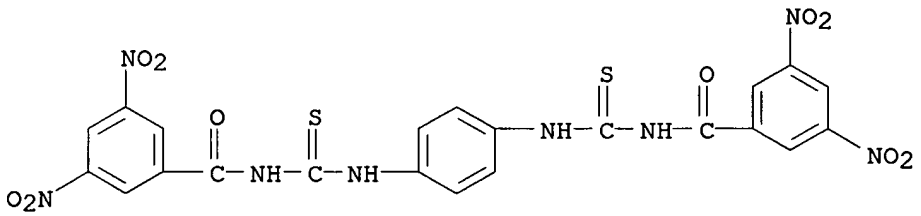
RN 493026-96-3 CAPLUS
CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[4-chloro- (9CI) (CA INDEX NAME)



RN 493026-98-5 CAPLUS
CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[4-nitro- (9CI) (CA INDEX NAME)

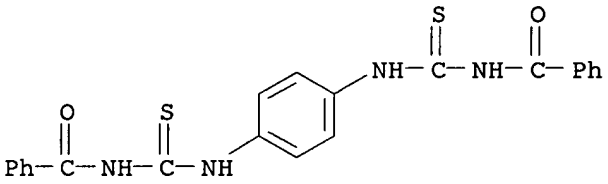


RN 493027-01-3 CAPLUS
CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[3,5-dinitro- (9CI) (CA INDEX NAME)

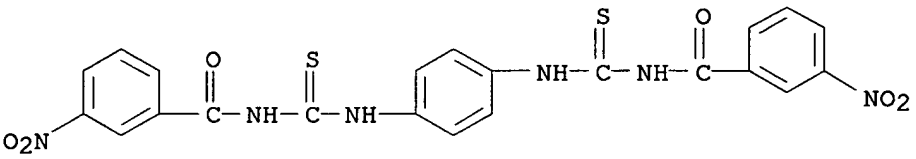


L5 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:76696 CAPLUS
DN 134:266079
TI Phase transfer catalyzed synthesis of arene-bis-aroyl thiourea derivatives
AU Zhang, You-Ming; Wei, Tai-Bao; Gao, Li-Ming
CS Department of Chemistry, Northwest Normal University, Lanzhou, 730 070, Peop. Rep. China
SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (**2000**), 39B(9), 700-702
CODEN: IJSBDB; ISSN: 0376-4699

PB National Institute of Science Communication, CSIR
DT Journal
LA English
OS CASREACT 134:266079
AB Reaction of 4.5 mmol arene diamines [1,2- and 1,4-(H2N)2C6H4, 4-H2NC6H4C6H4NH2-4, 4-H2N-3-MeC6H4C6H4Me-3-NH2-4] with 10 mmol aroyl chloride RCOCl (R = Ph, m-O2NC6H4, 2-furyl) and 15 mmol ammonium thiocyanate in 25 mL CH2Cl2 under the conditions of solid-liquid phase transfer catalysis using 3% (with respect to NH4SCN) polyethylene-glycol-600 (PEG-600) as the catalyst furnishes 12 arene-bis-aroyl thioureas in good to excellent (86-98%) yields. E.g., reaction of BzCl with 1,4-(H2N)2C6H4 and NH4SCN in CH2Cl2 containing PEG-600 gave 98% p-BzNHC(S)NHC6H4NHC(S)NHBz. The products were characterized by anal. and spectral (IR and 1H NMR) data.
IT **70110-39-3P 331862-02-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(phase-transfer carbamoylation of in-situ formed aroyl isothiocyanates with arene diamines)
RN 70110-39-3 CAPLUS
CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



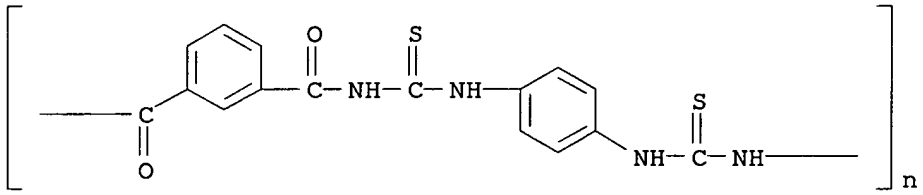
RN 331862-02-3 CAPLUS
CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[3-nitro- (9CI) (CA INDEX NAME)



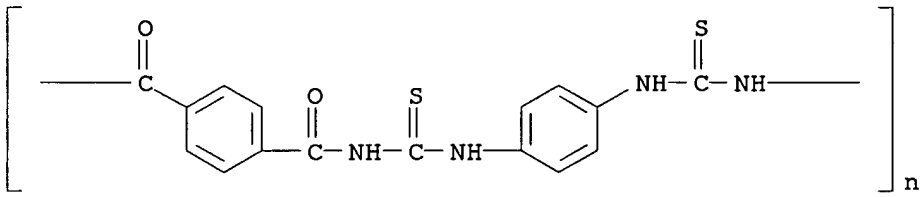
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1998:104912 CAPLUS
DN 128:154466
TI Synthesis, characterization and electrical conductivity of polyesters, polyamides and doped polymers
AU Bhatt, Vasishta D.; Ray, Arabinda
CS Department of Chemistry, S.P. University, Vallabh Vidyanagar, 388120, India
SO Synthetic Metals (**1998**), 92(2), 115-120
CODEN: SYMEDZ; ISSN: 0379-6779
PB Elsevier Science S.A.

DT Journal
LA English
AB Polyamides and polyesters containing azomethyne linkages were prepared by condensation from thioamide monomers and acid chlorides and from Schiff's bases and terephthalic acid chloride and isophthalic acid chloride, resp. The elec. conductivity of the resulting conducting polymers was studied using simple PPP [PPP] calcns. and exptl. measurements. The UV spectra of monomers and polymers indicate π - π^* transitions, however, no correlation could be obtained of this transition and conductivity A reasonably good correlations was obtained between the conductivity of the polymers and the frontier electron d. at the C* atom, from the LUMO [LUMO] and the next higher unoccupied orbital of the repeating unit. Upon doping with Ag, the elec. conductivity all polymers increased significantly, which is attributed to contributions of all unoccupied orbitals of adjacent repeating units to the C* atom.
IT **70113-14-3P 202803-51-8P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and electronic structure and elec. conductivity of undoped and silver-doped azomethyne group-containing polyester and thio group containing polyamide conducting polymers)
RN 70113-14-3 CAPLUS
CN Poly(iminocarbonothioylimino-1,4-phenyleneiminocarbonothioyliminocarbonyl-1,3-phenylenecarbonyl) (9CI) (CA INDEX NAME)



RN 202803-51-8 CAPLUS
CN Poly(iminocarbonothioylimino-1,4-phenyleneiminocarbonothioyliminocarbonyl-1,4-phenylenecarbonyl) (9CI) (CA INDEX NAME)



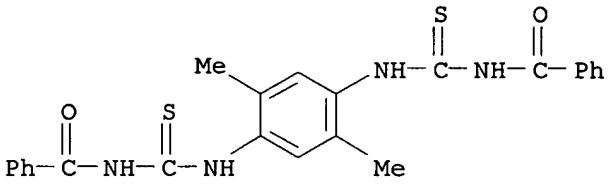
RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1995:526587 CAPLUS
DN 122:267065
TI Compounds containing two thiourea groups and their use in near-infrared absorbers and heat-blocking materials
IN Hayasaka, Hideki; Takano, Toshiyuki; Satake, Toshimi
PA Nippon Paper Industries Co., Ltd., Japan

SO Eur. Pat. Appl., 47 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 611754	A1	19940824	EP 1994-301189	19940218 <--
	EP 611754	B1	19980422		
	R: DE, FR, IT				
	JP 06299139	A2	19941025	JP 1993-199664	19930811 <--
	JP 3603315	B2	20041222		
	AU 9455219	A1	19940825	AU 1994-55219	19940218 <--
	AU 683031	B2	19971030		
	US 5723075	A	19980303	US 1996-634126	19960419 <--
PRAI	JP 1993-30954	A	19930219		
	JP 1993-199664	A	19930811		
	US 1994-197948	B1	19940217		

OS MARPAT 122:267065
AB Thiourea derivs. RNHCSNHZ1AZ2NHCSNHR and RNHCSNHZ3NHCSNHR (R = alkyl, aralkyl, aryl, acyl, alkenyl, alkoxycarbonyl, etc.; A = CH2, CH2CH2, S, O, CONH, NH, etc.; Z1-2 = 1,4-phenylene optionally substituted by alkyl, nitro, cyano, and/or halo groups; Z3 = arylene or substituted arylene) having high decomposition temps. are prepared and used with Cu compds. in resin moldings which absorb near-IR radiation. Reacting PhCH2NCS with bis(4-aminophenyl)methane gave (PhCH2NHCSNH-p-C6H4)2CH2 (decomposition temperature 210.5°) which was mixed with CU stearate and polystyrene at 190° and extruded to give a near-IR absorber.
IT **162781-28-4P**
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); PREP (Preparation); USES (Uses)
(preparation and use as heat-resistant near-IR absorbers)
RN 162781-28-4 CAPLUS
CN Benzamide, N,N'-[(2,5-dimethyl-4,1-phenylene)bis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



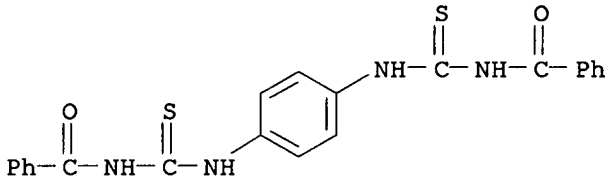
L5 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1990:244915 CAPLUS
DN 112:244915
TI Complexes of copper(II) with some new thiocarbamide derivatives
AU Abu El-Reash, Gaber M.; Taha, Fatma I.; Badr, Gamila
CS Fac. Sci., Mansoura Univ., Mansoura, Egypt
SO Transition Metal Chemistry (Dordrecht, Netherlands) (**1990**), 15(2), 116-19
CODEN: TMCHDN; ISSN: 0340-4285
DT Journal
LA English

AB A new series of thiocarbamides was prepared by the reaction of benzoylisothiocyanate with 2-aminopyridine, 3-aminopyridine, 2,3-diaminopyridine, 2,6-diaminopyridine, o-phenylenediamine, p-phenylenediamine, and ethylenediamine. The Cu(II) complexes of these ligands were isolated and characterized by elemental analyses, molar conductivities, magnetic moments and spectral (visible, IR) measurements. IR spectra show that the ligands behave as dianionic or neutral tetradentates or as monoanionic, or neutral bidentates. [Cu(HL)Cl]2 (H2L = RNHCSNHBz (R = 2-pyridyl)) and Cu(H2L1)Cl2 (H2L1 = R1(NHCSNHBz)2 (R1 = 2,6-pyridinediyl) are diamagnetic and the other complexes have normal magnetic moment at room temperature Electronic spectral analyses show that Cu2(L1)(OAc)2 is planar and the other complexes are tetragonally distorted octahedral. All the complexes are nonelectrolytes.

IT **70110-39-3P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and IR spectrum of)

RN 70110-39-3 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1989:553377 CAPLUS

DN 111:153377

TI Benzoylurea derivatives as insecticides and acaricides and their preparation

IN Kariya, Akinori; Nanjo, Katsumi; Katsurayama, Takayoshi

PA Agro-Kanesho Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF

DT Patent

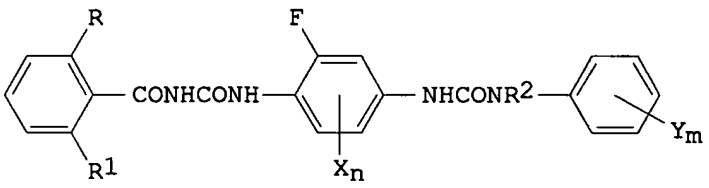
LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 01034953	A2	19890206	JP 1987-190899	19870730 <--
PRAI JP 1987-190899		19870730		

OS MARPAT 111:153377

GI



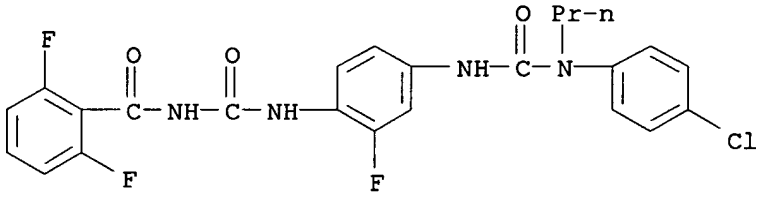
I

AB The title compds. I (R = halo; R1 = halo, H; X = H, halo, lower alkyl; n = 0, 1; R2 = lower alkyl, alkenyl; Y = H, halo, lower alkyl, alkoxy, etc.; m = 0-3), useful as insecticides and acaricides, were prepared A mixture of N-(3-fluoro-4-aminophenyl)-N'-(4-chlorophenyl)-N'-propylurea and 2,6-difluorobenzoyl isocyanate in ether was stirred at room temperature for 30 min to give I (R = R1 = F, Xn = H, R2 = Pr, Ym = 4-Cl) (II). At 500 ppm, II gave complete control of Plutella xylostella larvae. A wettable powder containing II 40, SiO2 2, clay 53, Na alkylbenzenesulfonate 2, and naphthalenesulfonic acid formalin condensation product 3 parts was prepared

IT **122815-63-8P 122815-64-9P 122815-65-0P**
122815-66-1P 122815-67-2P 122815-68-3P
122815-69-4P 122815-70-7P 122815-71-8P
122815-72-9P 122815-73-0P 122815-74-1P
122815-75-2P 122815-76-3P 122815-77-4P
122815-78-5P 122815-79-6P 122815-80-9P
122815-81-0P 122815-82-1P 122815-83-2P
122815-84-3P 122815-85-4P 122815-86-5P
122815-87-6P 122815-88-7P 122815-89-8P
122829-04-3P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as insecticide and acaricide)

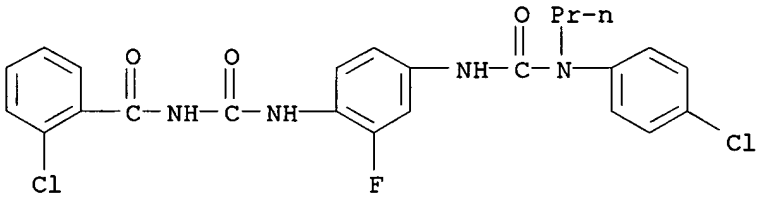
RN 122815-63-8 CAPLUS

CN Benzamide, N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



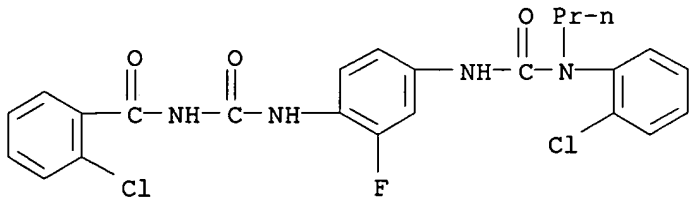
RN 122815-64-9 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)

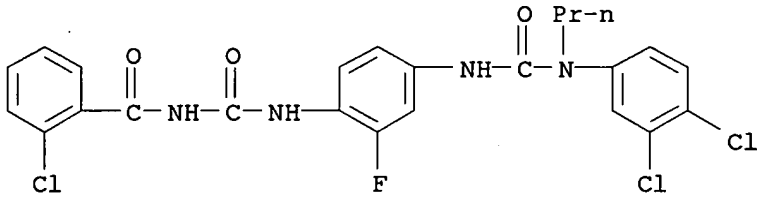


RN 122815-65-0 CAPLUS

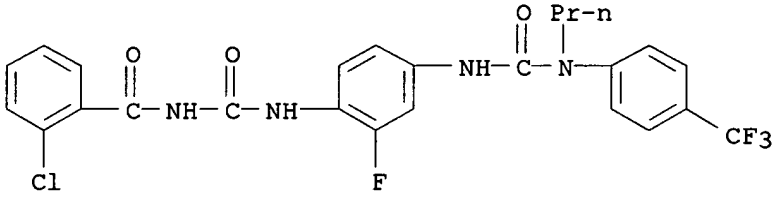
CN Benzamide, 2-chloro-N-[[[4-[[[(2-chlorophenyl)propylamino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



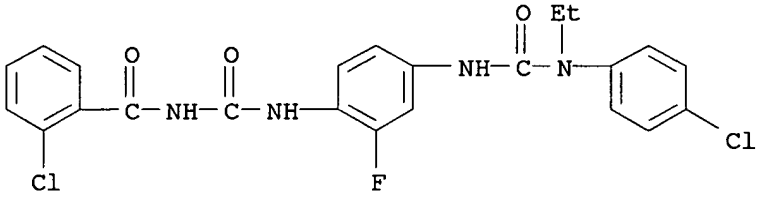
RN 122815-66-1 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[(3,4-dichlorophenyl)propylamino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



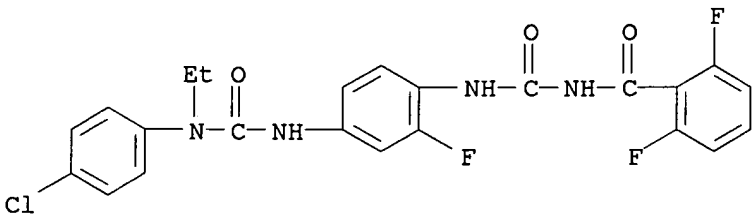
RN 122815-67-2 CAPLUS
CN Benzamide, 2-chloro-N-[[[2-fluoro-4-[[[propyl[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



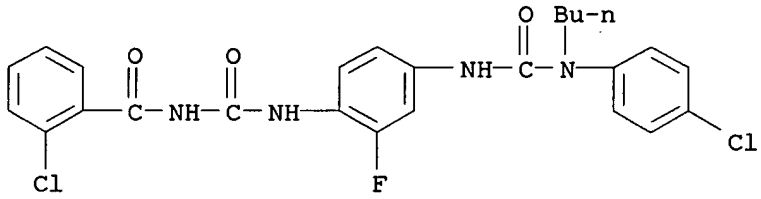
RN 122815-68-3 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)ethylamino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



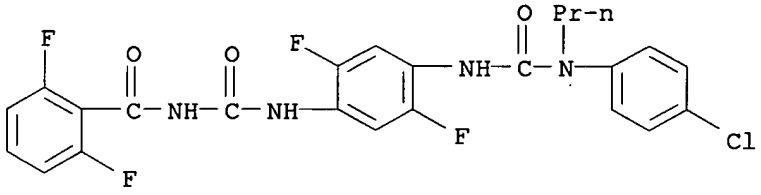
RN 122815-69-4 CAPLUS
CN Benzamide, N-[[[4-[[[(4-chlorophenyl)ethylamino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



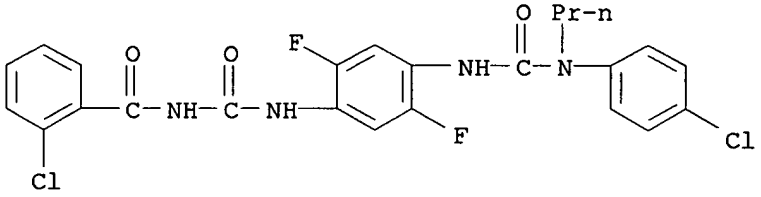
RN 122815-70-7 CAPLUS
CN Benzamide, N-[[[4-[[[butyl(4-chlorophenyl)amino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]-2-chloro- (9CI) (CA INDEX NAME)



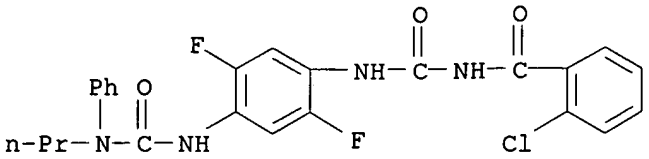
RN 122815-71-8 CAPLUS
CN Benzamide, N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-2,5-difluorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



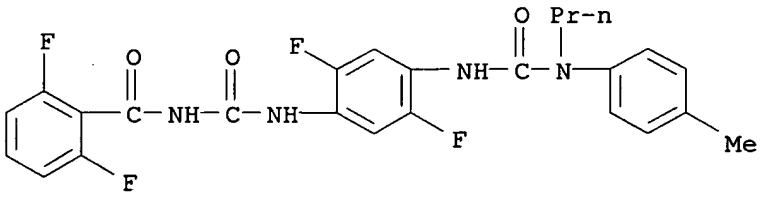
RN 122815-72-9 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-2,5-difluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



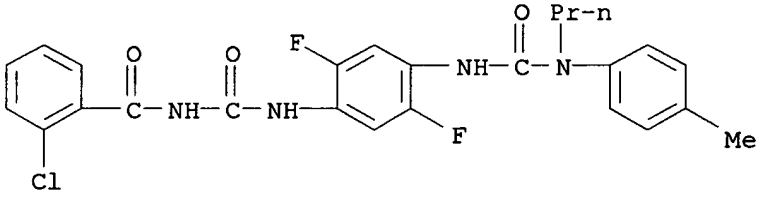
RN 122815-73-0 CAPLUS
CN Benzamide, 2-chloro-N-[[[2,5-difluoro-4-[[(phenylpropylamino)carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



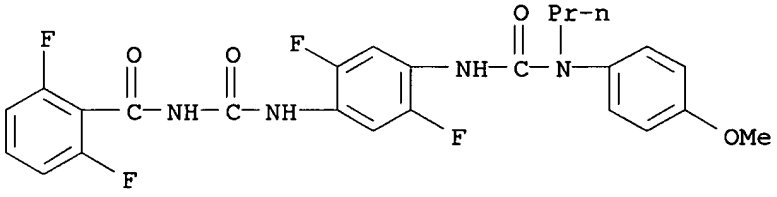
RN 122815-74-1 CAPLUS
CN Benzamide, N-[[[2,5-difluoro-4-[[[(4-methylphenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



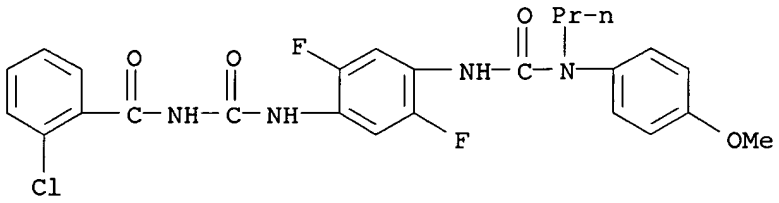
RN 122815-75-2 CAPLUS
CN Benzamide, 2-chloro-N-[[[2,5-difluoro-4-[[[(4-methylphenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



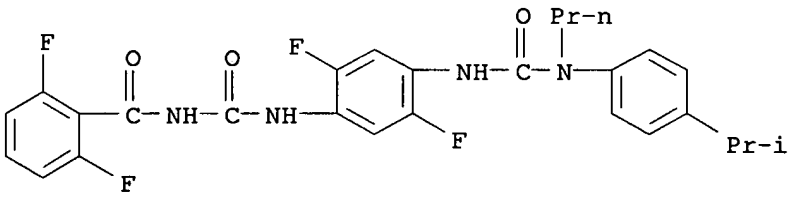
RN 122815-76-3 CAPLUS
CN Benzamide, N-[[[2,5-difluoro-4-[[[(4-methoxyphenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



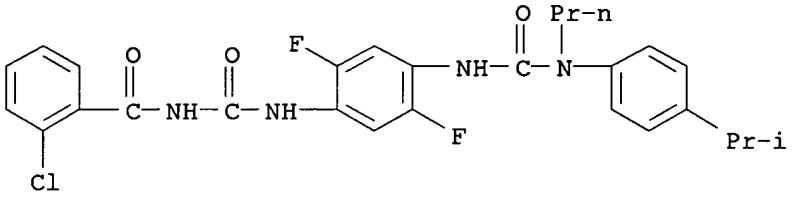
RN 122815-77-4 CAPLUS
CN Benzamide, 2-chloro-N-[[[2,5-difluoro-4-[[[(4-methoxyphenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



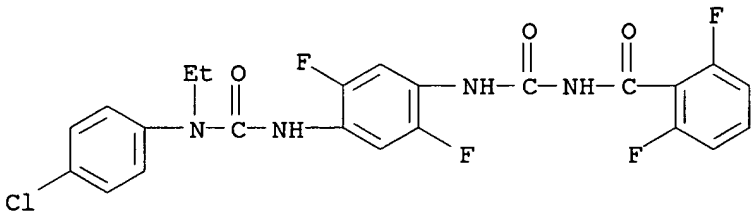
RN 122815-78-5 CAPLUS
CN Benzamide, N-[[[2,5-difluoro-4-[[[[4-(1-methylethyl)phenyl]propylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



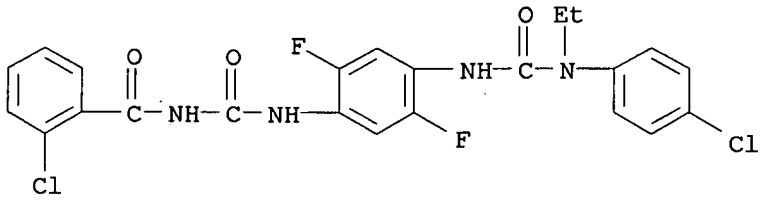
RN 122815-79-6 CAPLUS
CN Benzamide, 2-chloro-N-[[[2,5-difluoro-4-[[[[4-(1-methylethyl)phenyl]propylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



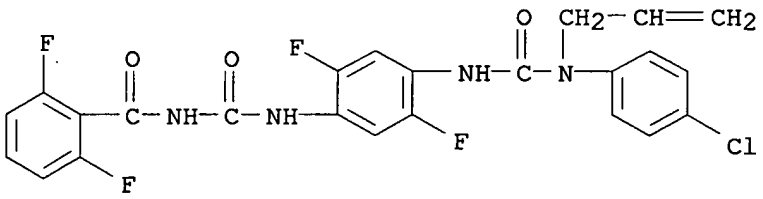
RN 122815-80-9 CAPLUS
CN Benzamide, N-[[[4-[[[(4-chlorophenyl)ethylamino]carbonyl]amino]-2,5-difluorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



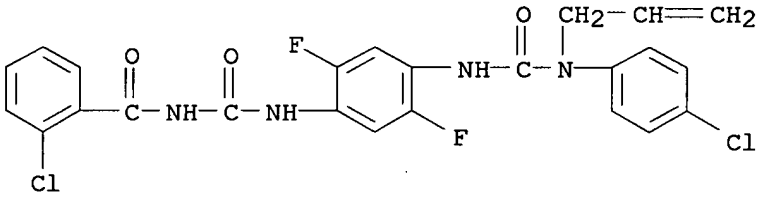
RN 122815-81-0 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)ethylamino]carbonyl]amino]-2,5-difluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



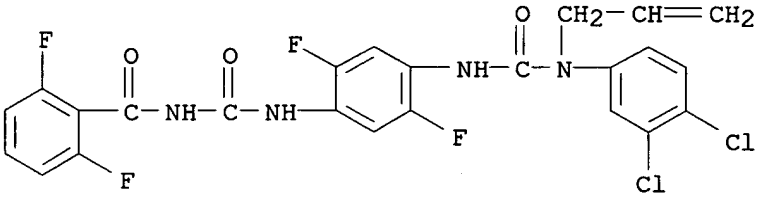
RN 122815-82-1 CAPLUS
CN Benzamide, N-[[[4-[[[(4-chlorophenyl)-2-propenylamino]carbonyl]amino]-2,5-difluorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



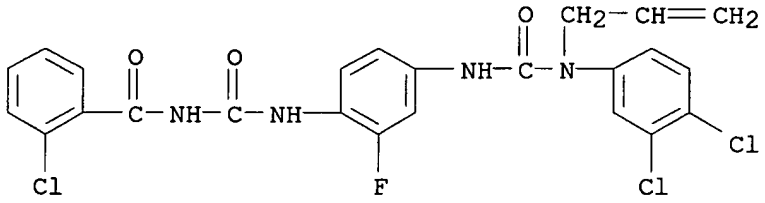
RN 122815-83-2 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)-2-propenylamino]carbonyl]amino]-2,5-difluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



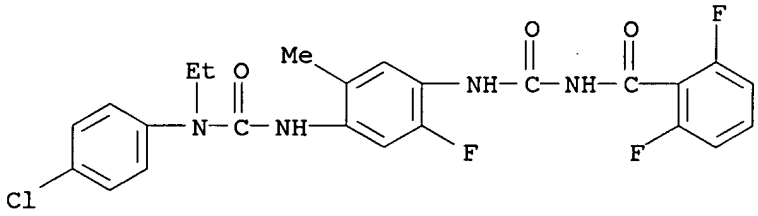
RN 122815-84-3 CAPLUS
CN Benzamide, N-[[[4-[[[(3,4-dichlorophenyl)-2-propenylamino]carbonyl]amino]-2,5-difluorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



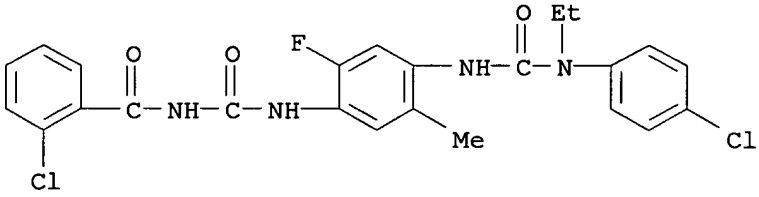
RN 122815-85-4 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[(3,4-dichlorophenyl)-2-propenylamino]carbonyl]amino]-2-fluorophenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



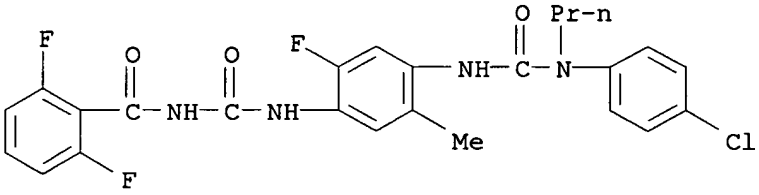
RN 122815-86-5 CAPLUS
CN Benzamide, N-[[[4-[[[(4-chlorophenyl)ethylamino]carbonyl]amino]-2-fluoro-5-methylphenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



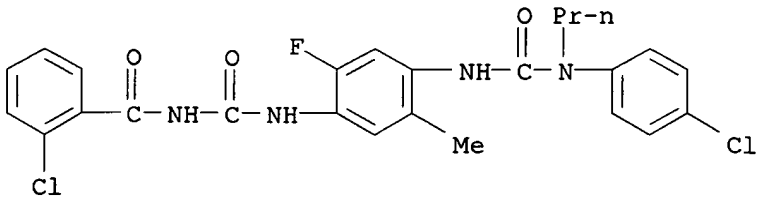
RN 122815-87-6 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)ethylamino]carbonyl]amino]-2-fluoro-5-methylphenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



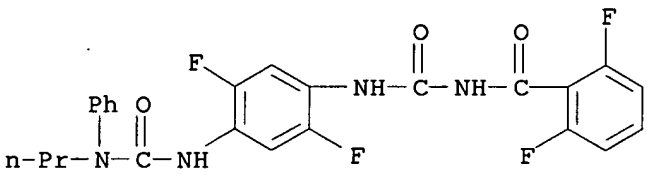
RN 122815-88-7 CAPLUS
CN Benzamide, N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-2-fluoro-5-methylphenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



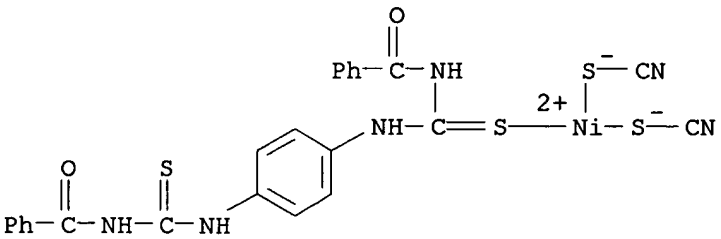
RN 122815-89-8 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-2-fluoro-5-methylphenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



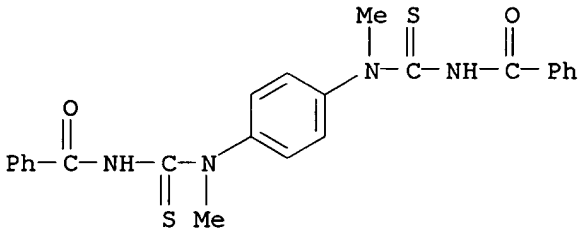
RN 122829-04-3 CAPLUS
CN Benzamide, N-[[[2,5-difluoro-4-[[(phenylpropylamino)carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



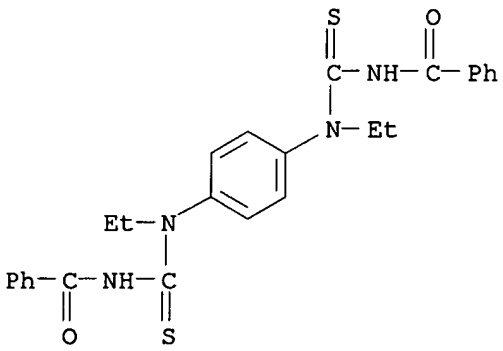
L5 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1988:160301 CAPLUS
DN 108:160301
TI Studies on the transition metal thiocyanate complexes with thioureas containing sulfur-sulfur and oxygen-sulfur-sulfur-oxygen donor sequences
AU Tembe, G. L.; Murty, A. S. R.
CS Dep. Chem., Karnatak Univ., Dharwad, 580 003, India
SO Current Science (**1987**), 56(24), 1277-9
CODEN: CUSCAM; ISSN: 0011-3891
DT Journal
LA English
AB ML(SCN)2 [M = Co, Ni, L = BzNHC(S)NH(CH2)2NHC(S)NHBz, o-C6H4(NHC(S)NHPh)2; m = Ni, L = o- and p-C6H4(NHC(S)NHBz)2] were prepared The complexes were characterized by molar conductivity and magnetic moment data, IR and electronic spectra and thermal anal. The ligands coordinate through the S atoms. Ligand field parameters were calculated The Ni complexes are octahedral and the Co complexes are 4 coordinate.
IT **113804-07-2P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and ligand field parameters of)
RN 113804-07-2 CAPLUS
CN Nickel, [N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[benzamide]-S]bis(thiocyanato-S)- (9CI) (CA INDEX NAME)



L5 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1987:42838 CAPLUS
DN 106:42838
TI Binucleating bis-N-acylthioureas - ligands in trimetallamacrocycles and polynuclear metal chelates
AU Koehler, R.; Kirmse, R.; Richter, R.; Sieler, J.; Hoyer, E.; Beyer, L.
CS Sekt. Chem., Karl-Marx-Univ., Leipzig, Fed. Rep. Ger.
SO Zeitschrift fuer Anorganische und Allgemeine Chemie (**1986**), 537, 133-44
CODEN: ZAACAB; ISSN: 0044-2313
DT Journal
LA German
AB By sym. linking of 2 bidentate N-acylthioureas 2 types of quadridentate bis-N-acylthioureas are available which act, after di-deprotonation as bis-bidentate S, O ligands towards polyvalent metal ions. They can form oligomeric or polymeric, cyclic or chain chelates. With 1,1,1',1'-tetraalkyl-3,3'-terephthaloylbisthioureas (H2L) oligomeric triangulo-trimetallamacrocycles Ni3L3 and Cu3L3 were obtained. They contain perimetric 27-membered rings, counting the internal oxygens, or 39-membered rings with the external S atoms on the other hand, i.e. equal chalcogen atoms are in cis-positions within each chelate unit around the 3 metal ions. The trimetallamacrocyclic structure was proved by x-ray crystal and mol. structure anal. of Ni3L3 (alkyl = Et) or EPR of the corresponding Cu3L3. Diamine-linked bis-N-acylthioureas form insol. 1:1 polymeric chelates.
IT **104359-19-5P 104359-20-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 104359-19-5 CAPLUS
CN Benzamide, N,N'-[1,4-phenylenebis[(methylimino)carbonothioyl]]bis- (9CI) (CA INDEX NAME)



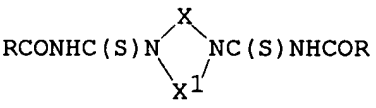
RN 104359-20-8 CAPLUS
CN Benzamide, N,N'-[1,4-phenylenebis[(ethylimino)carbonothioyl]]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1987:18148 CAPLUS
DN 106:18148
TI N,N'-disubstituted bisacylthiourea derivatives
IN Beyer, Lothar; Koehler, Ronald; Hoyer, Eberhard; Hartung, Juergen
PA Karl-Marx-Universitaet Leipzig, Ger. Dem. Rep.
SO Ger. (East), 11 pp.
CODEN: GEXXA8
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DD 229400	A1	19851106	DD 1984-270354	19841206 <--
PRAI DD 1984-270354		19841206		

GI

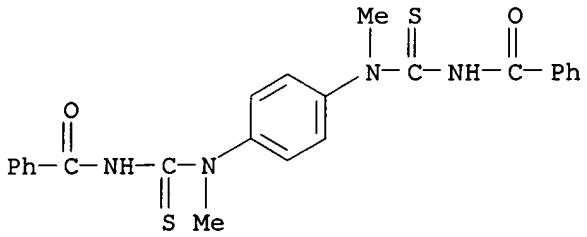


II

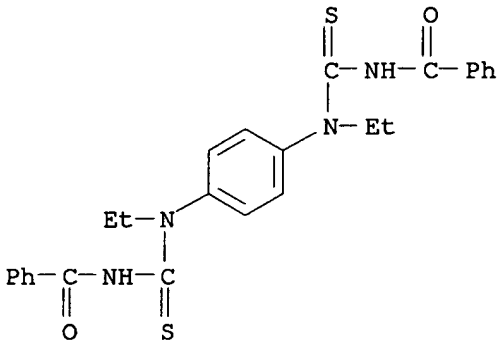
AB The title compds. [RCONHC(S)NR1]2Z [I; R = (un)substituted Ph; R1 = alkyl, aryl; Z = (un)substituted arylene, (CH2)n; n = 2-18] and II [R as above; X, X1 = (CH2)2, CH:CH] are prepared as chelating agents. Thus, 6.5 g BzNCS (preparation given) was added to a solution of 2.6 g N,N'-dimethyl-p-phenylenediamine and 1 g Et3N in 30 mL acetone, to give I (R = Ph, R1 = Me, Z = p-C6H4) (III). III (5 mmol) in 80 mL DMF was added to 1.25 g Ni(OAc)2.4H2O in 150 mL DMF, to give a polymeric III.Ni complex.

IT **104359-19-5P 104359-20-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as chelating agent)

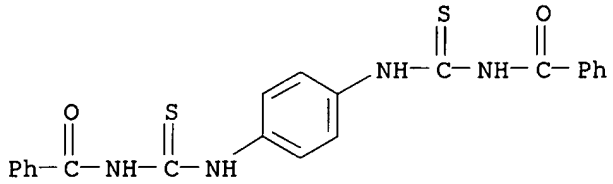
RN 104359-19-5 CAPLUS
CN Benzamide, N,N'-[1,4-phenylenebis[(methylimino)carbonothioyl]]bis- (9CI) (CA INDEX NAME)



RN 104359-20-8 CAPLUS
CN Benzamide, N,N'-[1,4-phenylenebis[(ethylimino)carbonothioyl]]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1985:422429 CAPLUS
DN 103:22429
TI Synthesis and spectroscopic properties of some new N,N'-disubstituted thioureas of potential biological interest
AU Sarkis, George Y.; Faisal, Essam D.
CS Coll. Sci., Univ. Baghdad, Baghdad, Iraq
SO Journal of Heterocyclic Chemistry (**1985**), 22(1), 137-40
CODEN: JHTCAD; ISSN: 0022-152X
DT Journal
LA English
OS CASREACT 103:22429
AB Thirty-six N,N'-disubstituted thioureas RNHCSNHR1 [R = Bz, Ph, 4-FC6H4; R1 = (un)substituted Ph, pyridyl, 4-quinolyl] were synthesized by the reaction of RNCS with R1NH2. The UV, IR and NMR spectral data are presented and discussed.
IT **70110-39-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 70110-39-3 CAPLUS
CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1984:630162 CAPLUS
DN 101:230162
TI Benzoylurea compounds for pesticidal and pharmaceutical use
IN Brouwer, Marius S.; Grosscurt, Arnoldus C.
PA Duphar International Research B. V., Neth.
SO Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 116729	A2	19840829	EP 1983-201862	19831230 <--
	EP 116729	A3	19840926		
	EP 116729	B1	19881012		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	AT 37869	E	19881015	AT 1983-201862	19831230 <--
	AU 8423614	A1	19840726	AU 1984-23614	19840119 <--
	AU 562260	B2	19870604		
	BR 8400234	A	19840828	BR 1984-234	19840119 <--
	ZA 8400422	A	19840926	ZA 1984-422	19840119 <--
	US 4665235	A	19870512	US 1984-572143	19840119 <--
	CA 1247644	A1	19881227	CA 1984-445614	19840119 <--
	DK 8400268	A	19840725	DK 1984-268	19840120 <--
	DK 159923	B	19901231		
	DK 159923	C	19910521		
	DD 219101	A5	19850227	DD 1984-259516	19840120 <--
	ES 529033	A1	19850316	ES 1984-529033	19840120 <--
	PL 139504	B1	19870131	PL 1984-245840	19840120 <--
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	HU 193668	B	19871130		
	IL 70747	A1	19861130	IL 1984-70747	19840123 <--
	JP 59176242	A2	19841005	JP 1984-9592	19840124 <--
	JP 04014660	B4	19920313		
	CS 242896	B2	19860515	CS 1984-527	19840124 <--
	SU 1375125	A3	19880215	SU 1984-3751717	19840618 <--
	US 4710516	A	19871201	US 1986-932296	19861119 <--
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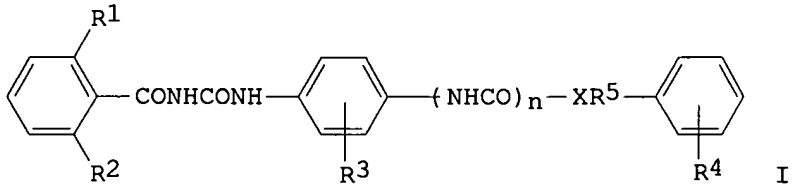

I

AB About 74 title compds. I (R1 = halo; R2 = H, halo; R3 = H, or 1-2 substituents selected from Cl, Me, CF3; R4 = H or 1-3 substituents selected from halo, alkyl, alkoxy, haloalkyl, haloalkoxy; X = N, CH; n = 0, 1; R5 = H, C1-6 alkyl, C2-6 alkenyl, C3-6 cycloalkyl; if n = 0, and R5 = H, then R3 = H), insecticides, acaricides, and antitumor agents, were prepared E.g., treating 0.90 g 2,6-F2C6H3CONCO with 1.27 g H2NC6H4NPrC6H4Cl-4 in Et2O at room temperature gave 1.50 g N-(2,6-difluorobenzoyl)-N'-[4-[N-(4-chlorophenyl)-N-propylamino]phenyl]urea (II). At 1 mg/L, II gave 90-91% mortality of larvae of Pieris brassicae.

IT **93275-07-1P 93275-08-2P 93275-09-3P**
93275-35-5P 93275-36-6P 93275-37-7P
93275-38-8P 93275-39-9P 93275-40-2P
93275-41-3P 93275-42-4P 93275-43-5P
93275-44-6P 93275-45-7P 93275-46-8P
93275-47-9P 93275-48-0P 93275-49-1P
93275-50-4P 93275-51-5P 93275-52-6P
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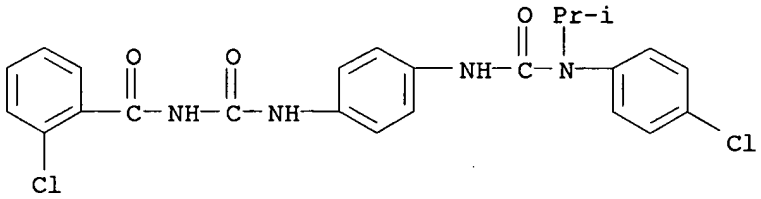
93275-62-8P 93275-63-9P 93275-64-0P
93275-65-1P 93275-66-2P 93275-71-9P
93275-72-0P 93275-73-1P 93275-74-2P
93442-91-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation, pesticidal activity, and antitumor activity of)

RN 93275-07-1 CAPLUS

CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)(1-methylethyl)amino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 93275-08-2 CAPLUS

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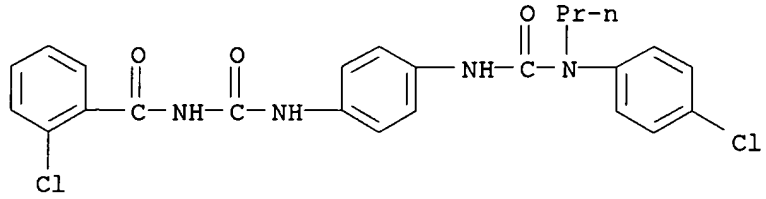

RN 93275-09-3 CAPLUS
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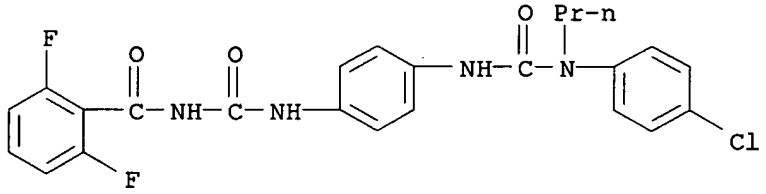
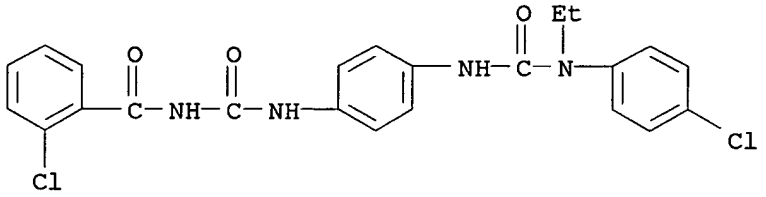
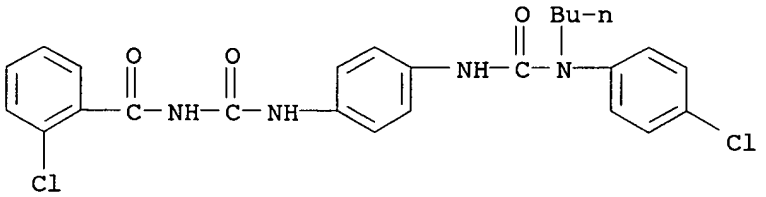


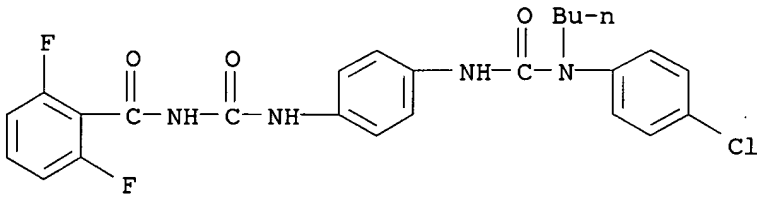
RN 93275-35-5 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)ethylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 93275-36-6 CAPLUS
CN Benzamide, N-[[[4-[[[butyl(4-chlorophenyl)amino]carbonyl]amino]phenyl]amino]carbonyl]-2-chloro- (9CI) (CA INDEX NAME)



RN 93275-37-7 CAPLUS
CN Benzamide, N-[[[4-[[[butyl(4-chlorophenyl)amino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



RN 93275-38-8 CAPLUS
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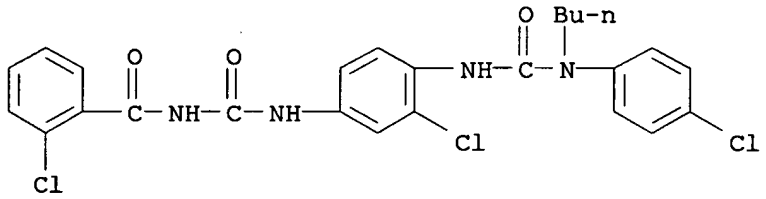
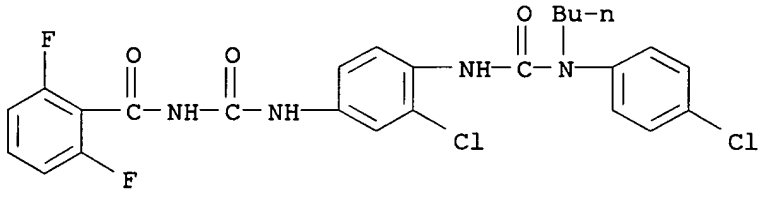


RN 93275-39-9 CAPLUS
CN Benzamide, N-[[[4-[[[butyl(4-chlorophenyl)amino]carbonyl]amino]-3-chlorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



RN 93275-40-2 CAPLUS
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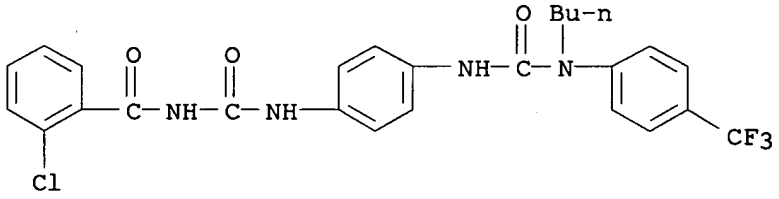
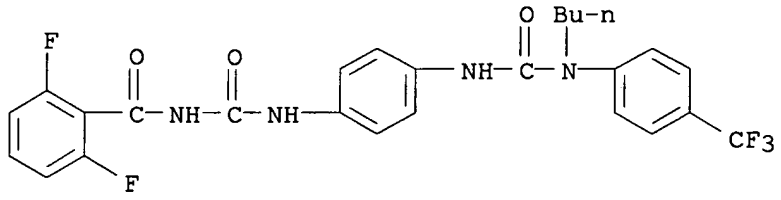
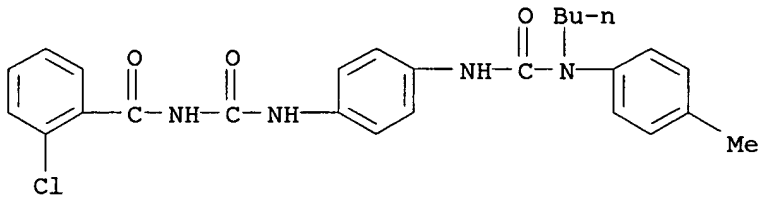


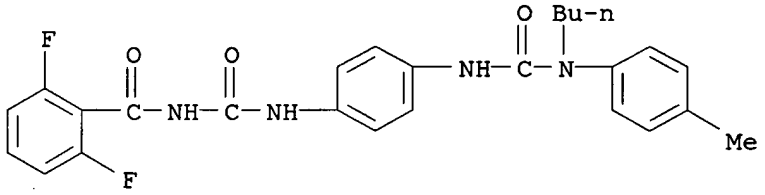
RN 93275-41-3 CAPLUS
CN Benzamide, N-[[[4-[[[butyl[4-(trifluoromethyl)phenyl]amino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



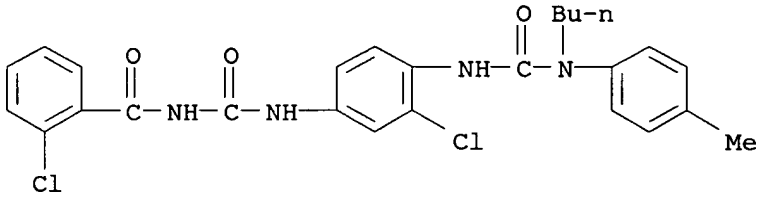
RN 93275-42-4 CAPLUS
CN Benzamide, N-[[[4-[[[butyl(4-methylphenyl)amino]carbonyl]amino]phenyl]amino]carbonyl]-2-chloro- (9CI) (CA INDEX NAME)



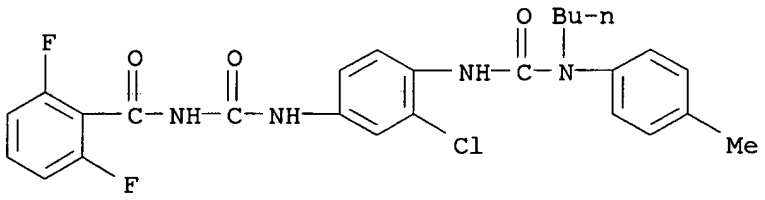
RN 93275-43-5 CAPLUS
CN Benzamide, N-[[[4-[[[butyl(4-methylphenyl)amino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



RN 93275-44-6 CAPLUS
CN Benzamide, N-[[[4-[[[butyl(4-methylphenyl)amino]carbonyl]amino]-3-chlorophenyl]amino]carbonyl]-2-chloro- (9CI) (CA INDEX NAME)



RN 93275-45-7 CAPLUS
CN Benzamide, N-[[[4-[[[butyl(4-methylphenyl)amino]carbonyl]amino]-3-chlorophenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



RN 93275-46-8 CAPLUS
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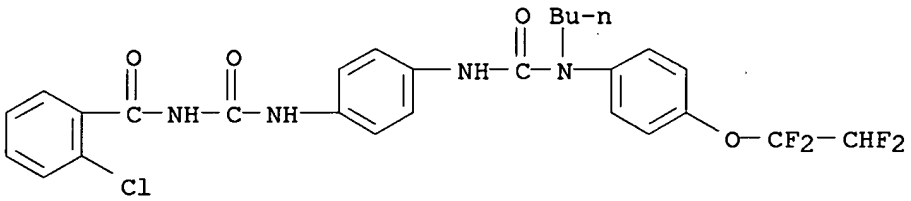
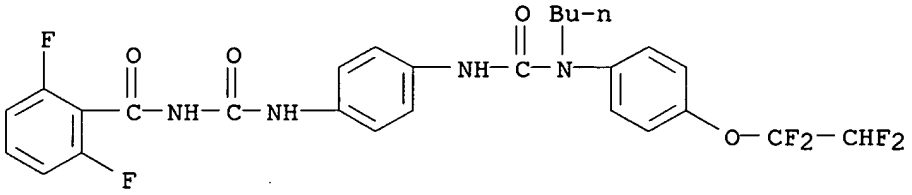
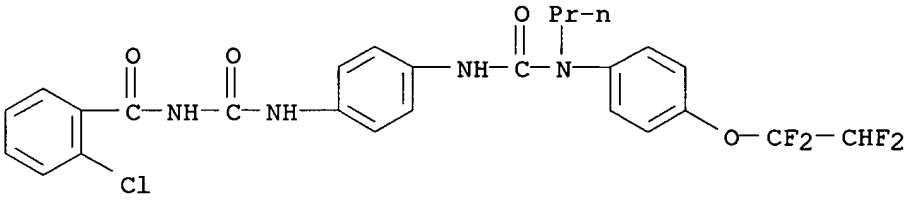


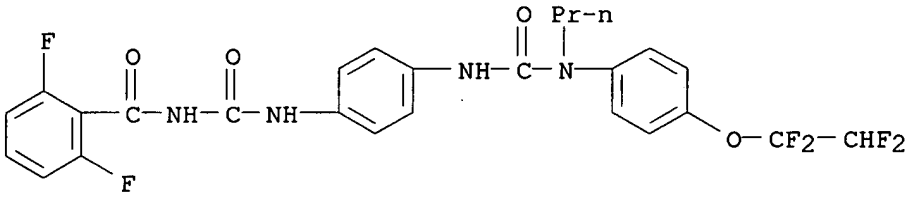
RN 93275-47-9 CAPLUS
CN Benzamide, N-[[[4-[[[butyl[4-(1,1,2,2-tetrafluoroethoxy)phenyl]amino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



RN 93275-48-0 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[propyl[4-(1,1,2,2-tetrafluoroethoxy)phenyl]amino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 93275-49-1 CAPLUS
CN Benzamide, 2,6-difluoro-N-[[[4-[[[propyl[4-(1,1,2,2-tetrafluoroethoxy)phenyl]amino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



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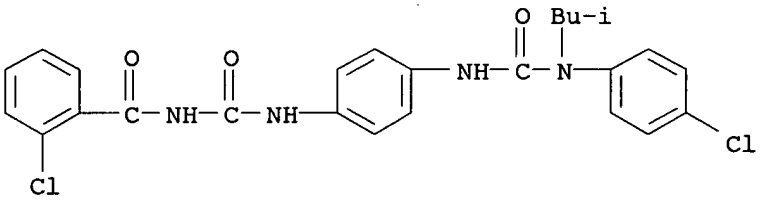
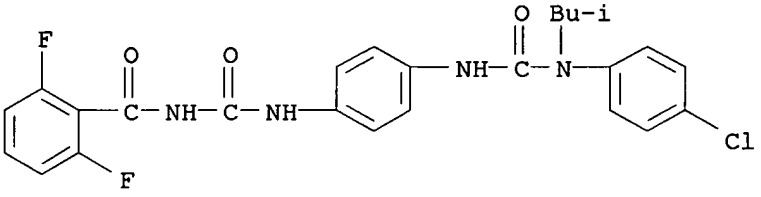


RN 93275-51-5 CAPLUS
CN Benzamide, N-[[[4-[[[(4-chlorophenyl)(2-methylpropyl)amino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



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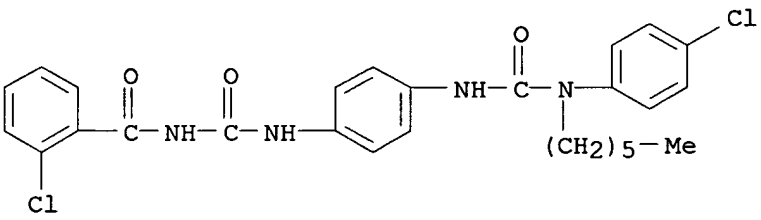
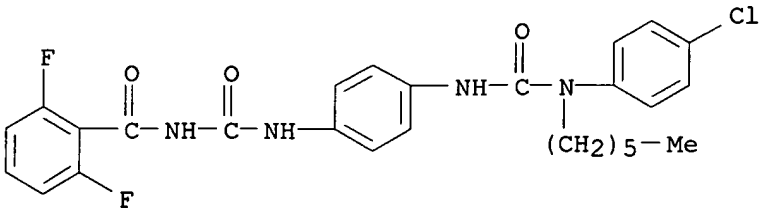
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)hexylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 93275-53-7 CAPLUS
CN Benzamide, N-[[[4-[[[(4-chlorophenyl)hexylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



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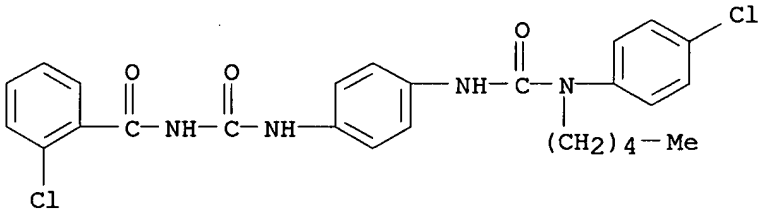
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)pentylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



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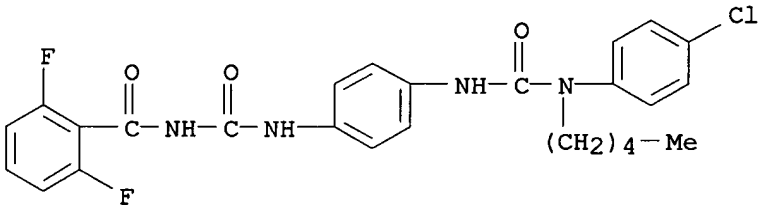
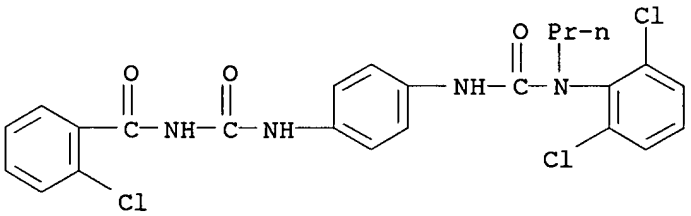
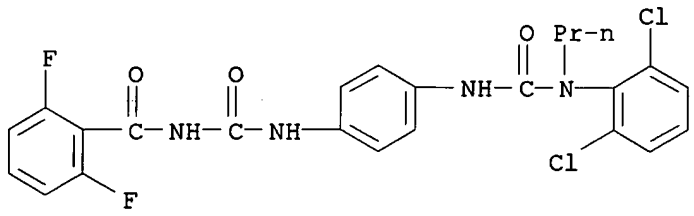


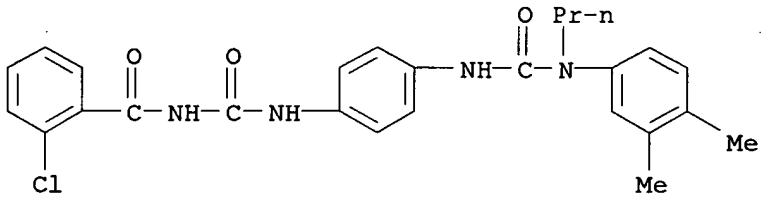
RN 93275-56-0 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[(2,6-dichlorophenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



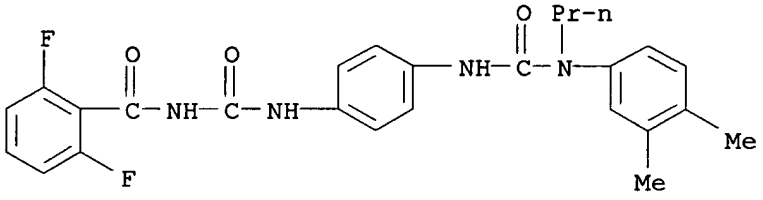
RN 93275-57-1 CAPLUS
CN Benzamide, N-[[[4-[[[(2,6-dichlorophenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



RN 93275-58-2 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[(3,4-dimethylphenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 93275-59-3 CAPLUS
CN Benzamide, N-[[[4-[[[(3,4-dimethylphenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



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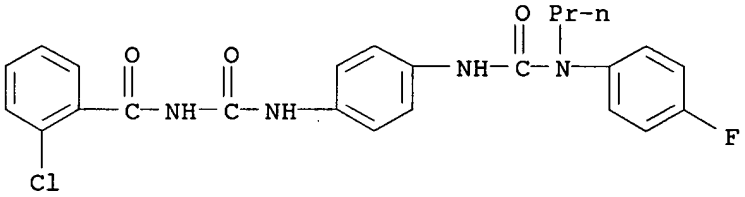
CN Benzamide, 2-chloro-N-[[[4-[[[(4-fluorophenyl)propylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



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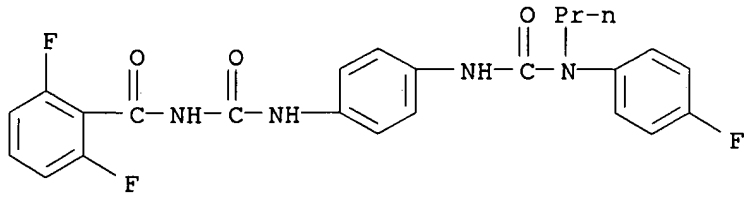

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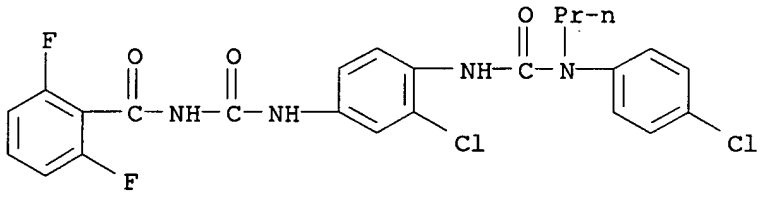

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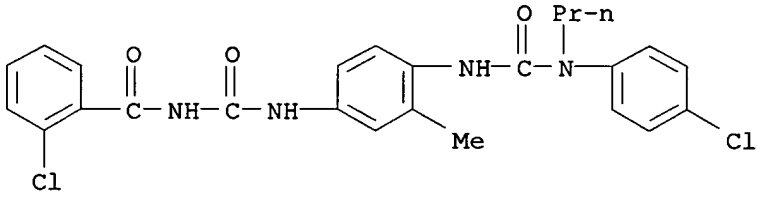
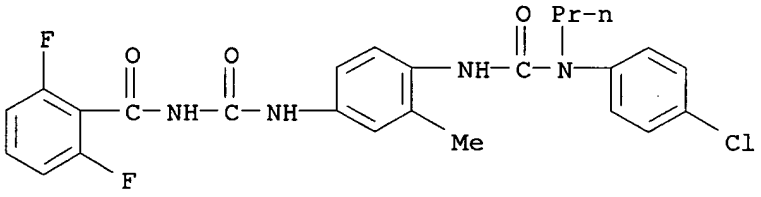
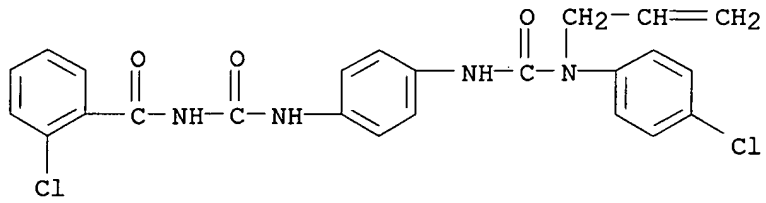


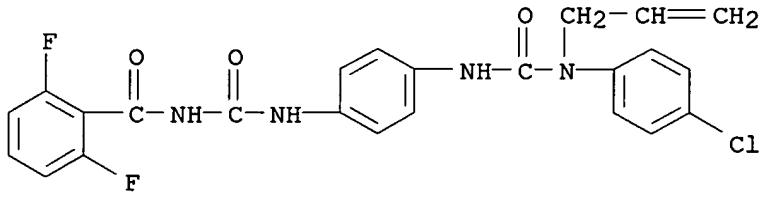
RN 93275-64-0 CAPLUS
CN Benzamide, N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-3-methylphenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



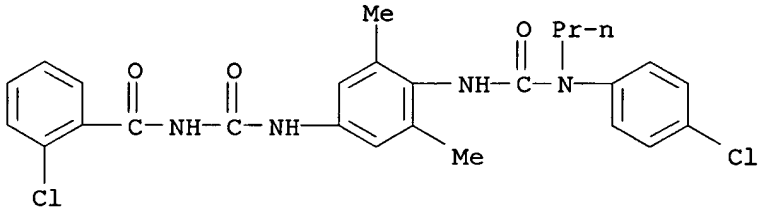
RN 93275-65-1 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)-2-propenylamino]carbonyl]amino]phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



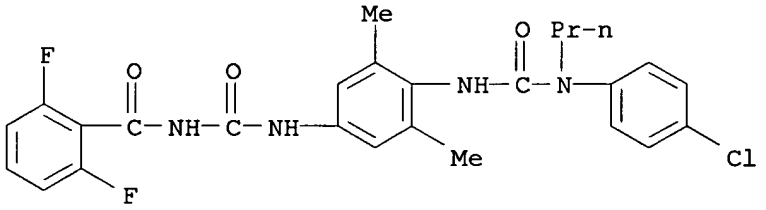
RN 93275-66-2 CAPLUS
CN Benzamide, N-[[[4-[[[(4-chlorophenyl)-2-propenylamino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



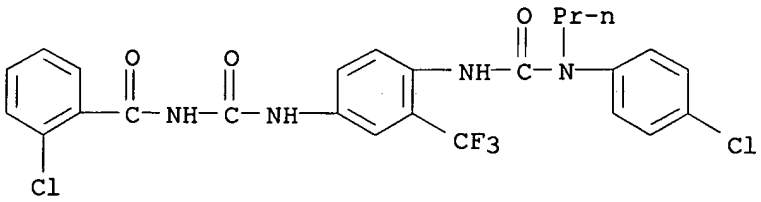
RN 93275-71-9 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-3,5-dimethylphenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



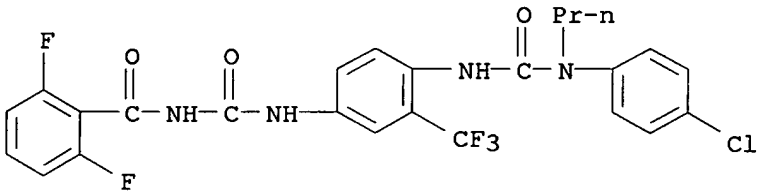
RN 93275-72-0 CAPLUS
CN Benzamide, N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-3,5-dimethylphenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



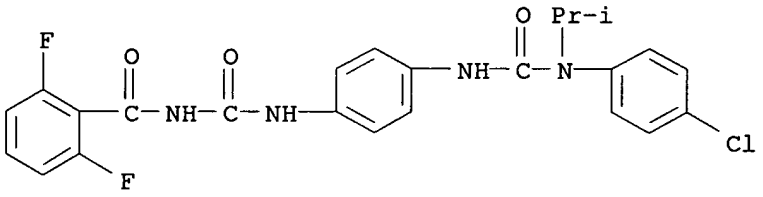
RN 93275-73-1 CAPLUS
CN Benzamide, 2-chloro-N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-3-(trifluoromethyl)phenyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



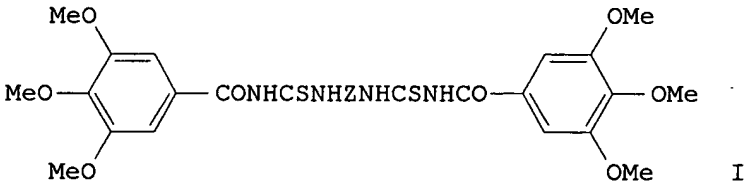
RN 93275-74-2 CAPLUS
CN Benzamide, N-[[[4-[[[(4-chlorophenyl)propylamino]carbonyl]amino]-3-(trifluoromethyl)phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



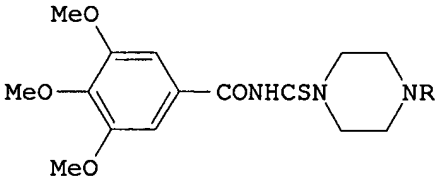
RN 93442-91-2 CAPLUS
CN Benzamide, N-[[[4-[[[(4-chlorophenyl)(1-methylethyl)amino]carbonyl]amino]phenyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



L5 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1983:487771 CAPLUS
DN 99:87771
TI Studies on the alkoxybenzoic acid series. V. 3,4,5-Trimethoxybenzoyl thioureides
AU Missir, A.; Zolta, V.; Soare, Jana; Chirita, Ileana; Petrea, I.; Stan, A.
CS Lab. Chim. Farm., Fac. Farm., Bucharest, Rom.
SO Farmacia (Bucharest, Romania) (**1982**), 30(4), 225-30
CODEN: FRMBAZ; ISSN: 0014-8237
DT Journal
LA Romanian
OS CASREACT 99:87771
GI



I



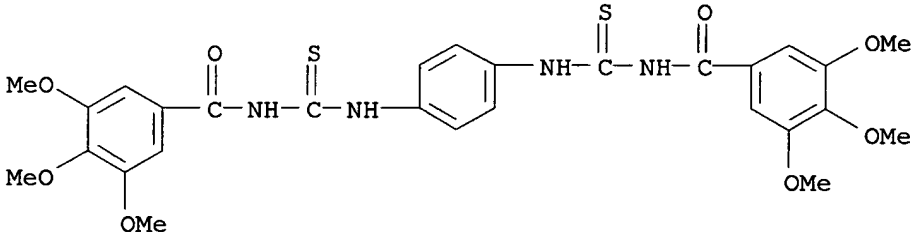
II

AB Bis-thioureas I [Z = phenylene, methylphenylene, (CH2)n (n = 2,3,4,5,6)] and benzoylthioureas II [R = 3,4,5-(MeO)3C6H2CONHCS, Ph] were prepared Thus, 3,4,5-(MeO)3C6H2COCl was treated with NH4SCN in Me2CO, the mixture was heated, o-phenylenediamine in Me2CO was added, and the mixture was refluxed to give I (Z = o-phenylene).

IT **82925-65-3P 82934-52-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

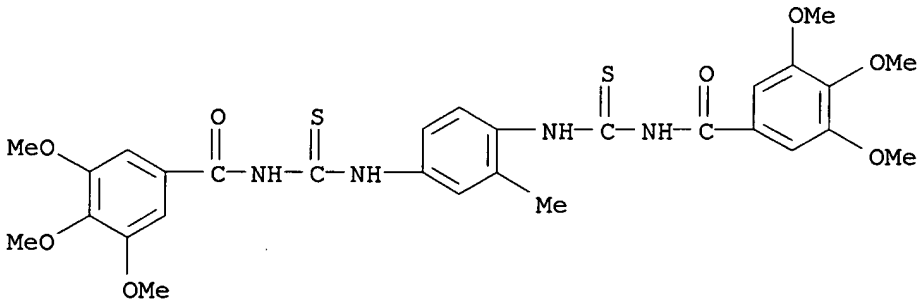
RN 82925-65-3 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[3,4,5-trimethoxy- (9CI) (CA INDEX NAME)

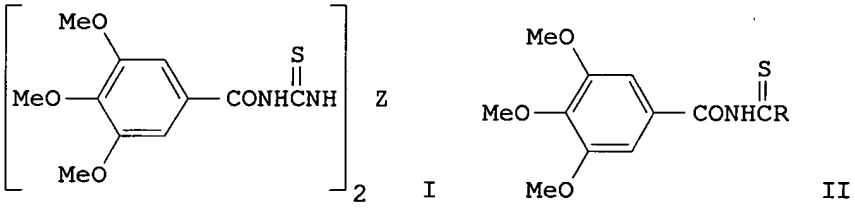


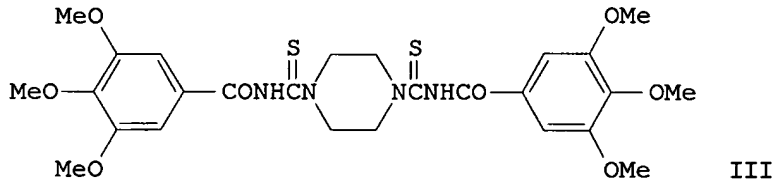
RN 82934-52-9 CAPLUS

CN Benzamide, N,N'-[(2-methyl-1,4-phenylene)bis(iminocarbonothioyl)]bis[3,4,5-trimethoxy- (9CI) (CA INDEX NAME)



L5 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1982:555973 CAPLUS
DN 97:155973
TI Pharmacodynamic study of some new 3,4,5-trimethoxybenzoic acid thioureides. Part VI
AU Cristea, Elena; Missir, A.; Chirita, Ileana; Dan, G.; Georgescu, C.
CS Discip. Farmacodin., Fac. Farm., Bucharest, Rom.
SO Farmacia (Bucharest, Romania) (**1982**), 30(1), 41-8
CODEN: FRMBAZ; ISSN: 0014-8237
DT Journal
LA Romanian
GI

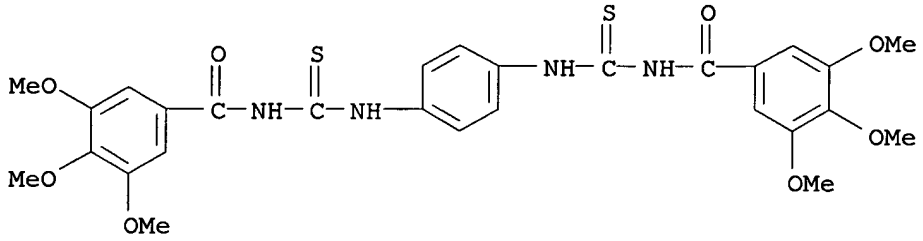




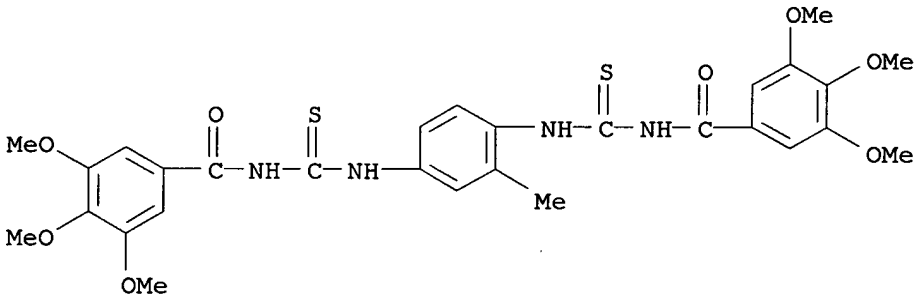
AB The pharmacol. of 11 title compds. [I(Z = (CH2)n, n = 2-6, etc.); II (R = 4-Ph-piperazin-1-yl or 2,6-Br2C6H3NH) and III [82925-64-2]] was studied. Among the central nervous system depressing substance were I (Z = p-C6H4) [**82925-65-3**], I [Z = (CH2)3] [82925-66-4], I [Z = (CH2)5] [82925-67-5], II (R = 4-Ph-piperazin-1-yl, and III. Compds. blocking intestinal motility included I (Z = o-C6H4) [82925-69-7], I (Z = p-C6H4), I [Z = (CH2)4] [82925-70-0], and I (Z = 2-Me-1,4-C6H3. The compds. had anticholesteremic and antihyperglycemic activities. None of the compds. had greater activity than compds. of the same class previously tested.
IT **82925-65-3 82934-52-9**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmacol. of)

RN 82925-65-3 CAPLUS
CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[3,4,5-trimethoxy- (9CI) (CA INDEX NAME)

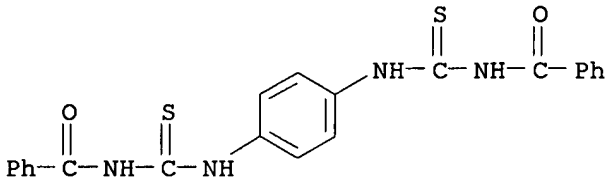


RN 82934-52-9 CAPLUS
CN Benzamide, N,N'-[(2-methyl-1,4-phenylene)bis(iminocarbonothioyl)]bis[3,4,5-trimethoxy- (9CI) (CA INDEX NAME)

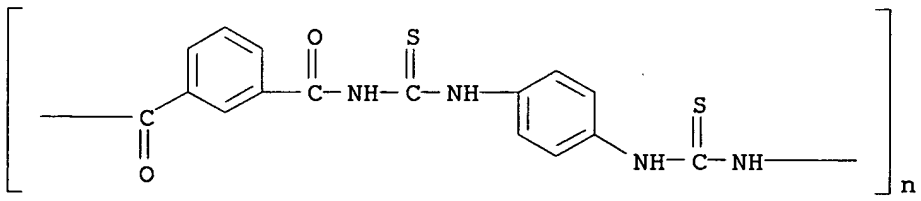


L5 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1982:227948 CAPLUS
DN 96:227948
TI Complexes of p,p'-bis(benzoylthioureido)benzene with copper(II), nickel(II) and cobalt(II) salts and their biological activity
AU Satpathy, K. C.; Mishra, H. P.; Patel, B. N.
CS P. G. Dep. Chem., Sambalpur Univ., Burla, 768 017, India
SO Journal of the Indian Chemical Society (**1982**), 59(1), 40-2
CODEN: JICSAH; ISSN: 0019-4522
DT Journal
LA English
AB MLX2 (M = Cu, Ni, Co; L = BzNHC(S)NHC6H4NHC(S)NHBz-p, X = Cl, Br, NO3, ClO4) were prepared and characterized on the basis of IR spectral, electronic spectra and magnetic susceptibility measurements. IR spectra manifest the coordinates of the ligand to the metal ion through carbonyl O and thiocarbonyl S atoms. The complexes possess octahedral stereochem. as inferred from electronic spectral data and magnetic moment values. Fungicidal screening of the complexes shows them to be antifungal against Aspergellus niger, Fusarium oxysporium and Helminthosporium oryzae.
IT **70110-39-3P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and fungicidal activity of)
RN 70110-39-3 CAPLUS
CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)

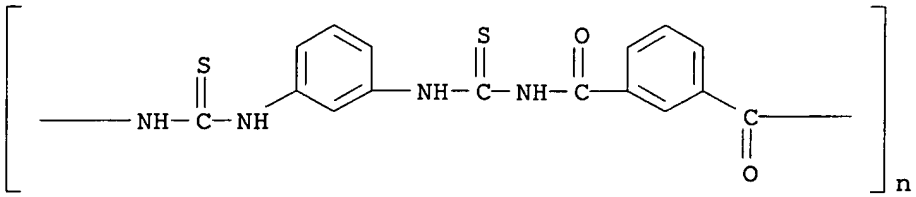


L5 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1979:187379 CAPLUS
DN 90:187379
TI Synthesis of polyacylthioureas by polyaddition of isophthaloyldiisothiocyanate with diamines
AU Shimano, Yasuo; Sasaki, Shoichi
CS Dep. Ind. Chem., Hachinohe Tech. Coll., Hachinohe, Japan
SO Kobunshi Ronbunshu (**1979**), 36(2), 81-8
CODEN: KBRBA3; ISSN: 0386-2186
DT Journal
LA Japanese
AB Isophthaloyl diisothiocyanate (I) is polymerized with aromatic diamines in amide solns. to give polymers having reduced viscosity ≤1.39 dL/g (30°, 0.5 g/dL in Me2NAc containing 5% LiCl), or I is polymerized with aliphatic diamines by interfacial methods using aromatic solvents to give polymers having reduced viscosity up to 1.21 dL/g. Interfacial polymerization of I with aromatic diamines and solution polymerization of I in amide solvents with aliphatic diamines does not give high-mol. weight polymers. The poly(acylthioureas) lose 5% weight in N or air at 210-20°.
IT **70113-14-3P 70113-15-4P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and properties of, solvent effect on)
RN 70113-14-3 CAPLUS
CN Poly(iminocarbonothioylimino-1,4-phenyleneiminocarbonothioyliminocarbonyl-1,3-phenylenecarbonyl) (9CI) (CA INDEX NAME)

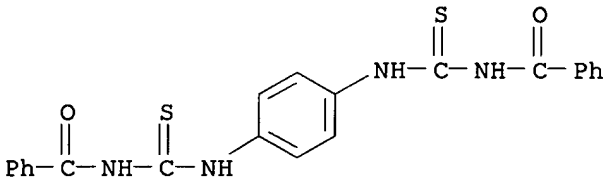


RN 70113-15-4 CAPLUS

CN Poly(iminocarbonothioylimino-1,3-phenyleneiminocarbonothioyliminocarbonyl-1,3-phenylenecarbonyl) (9CI) (CA INDEX NAME)



IT **70110-39-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 70110-39-3 CAPLUS
CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1974:437407 CAPLUS
DN 81:37407
TI 1-(3-Disubstituted phosphonothioureido)-2-(3-substituted ureido- or thioureido)-benzene compounds
IN Weir, William D.
PA Rohm and Haas Co.
SO Ger. Offen., 24 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2346241	A1	19740502	DE 1973-2346241	19730913 <--
	US 3845176	A	19741029	US 1972-298683	19721018 <--
	FR 2306700	A2	19761105	FR 1973-36312	19731011 <--
	FR 2306700	B2	19790126		
	BE 806083	A4	19740416	BE 1973-136693	19731015 <--
	ZA 7307995	A	19741127	ZA 1973-7995	19731015 <--
	DD 109223	W	19741020	DD 1973-174091	19731016 <--
	AU 7361459	A1	19750417	AU 1973-61459	19731016 <--
	JP 54007787	B4	19790410	JP 1973-116249	19731016 <--
	SE 415355	B	19800929	SE 1973-14069	19731016 <--
	SE 415355	C	19810122		
	GB 1444103	A	19760728	GB 1973-48353	19731017 <--
	HU 172069	P	19780528	HU 1973-RO754	19731017 <--
	NL 7314380	A	19740422	NL 1973-14380	19731018 <--

	AT 7308868	A	19760315	AT 1973-8868	19731018 <--
	AT 333305	B	19761110		
	ES 419749	A1	19760316	ES 1973-419749	19731018 <--
	PL 101308	P	19781230	PL 1973-165936	19731018 <--
	IL 43491	A1	19780310	IL 1973-43491	19731026 <--
	IN 139438	A	19760619	IN 1974-CA403	19740226 <--
PRAI	US 1972-298683	A	19721018		
	BE 1973-800041	A	19730525		

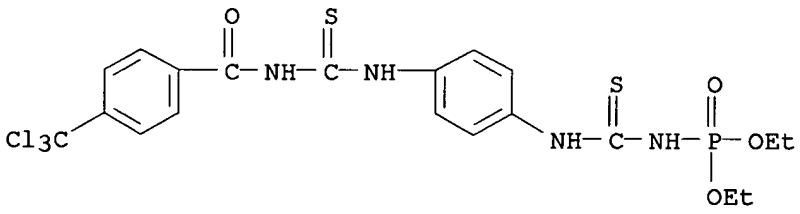
GI For diagram(s), see printed CA Issue.

AB The urea derivs. I (R = Et, Me2CH, ClCH2CH2; R1 = H, Cl; R2 = e.g., 4-MeC6H4SO2, BuSO2, Ac, Bz; Z = O, S) were prepared in one reaction vessel by the reaction of ClP(O)(OR)2 with a thiocyanate to give SCNP(O)(OR)2, which reacted with 3,4-(H2N)2C6H3R, then with R2NCS or R2NCO to give I. Thus, ClP(O)(OEt)2 reacted with KSCN in MeOCH2CH2OMe, followed by addition of o-C6H4(NH2)2, then 4-MeC6H4SO2NCS to give I (R = Et, R1 = H, R2 = 4-MeC6H4SO2, Z = S). Twenty-two I were prepared

IT **52867-32-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 52867-32-0 CAPLUS

CN Phosphoramidic acid, [thioxo[[4-[[thioxo[[4-(trichloromethyl)benzoyl]amino]methyl]amino]phenyl]amino]methyl]-, diethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1971:449011 CAPLUS

DN 75:49011

TI New iodinated organic compounds. Iodinated derivatives of 1,2-dihydro-4H-3,1-benzoxazine-2,4-dione and 2,4(1H, 3H)-quinazolinedione

AU Covello, Mario; Dini, Antonio; De Simone, Francesco

CS Ist. Chim. Farm. Tossicol., Univ. Napoli, Naples, Italy

SO Rendiconto dell'Accademia delle Scienze Fisiche e Matematiche, Naples (**1969**), 36, 61-6
CODEN: RASFAM; ISSN: 0370-3568

DT Journal

LA Italian

GI For diagram(s), see printed CA Issue.

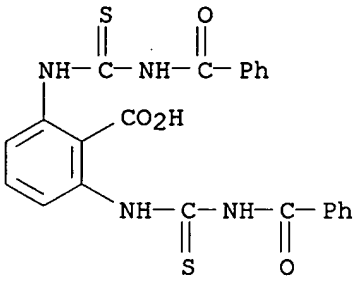
AB The known 6,2-I(H2N)C6H3CO2H (I) refluxed 20 hr in ClCO2Et yielded 63% 5-iodo-2H-3,1-benzoxazine-2,4-(1H)-dione (II) (R = H, R1 = 5-I), m. 173.5° (MeOH-C6H6), converted by refluxing 2 hr in concentrated NH4OH to 39% 5-iodo-2,4-(1H,3H)-quinazolinedione (III) (R = H, R1 = 5-I), m. 340°, also produced by heating I 30 min at 170-80° with urea. NH4SCN refluxed in Me2CO with addition of BzCl and the mixture treated with I in Me2CO, refluxed and the cooled solution poured into cold H2O gave 6,2-I(BzNHCSNH)C6H3CO2H (IV), m. 171-3°, converted by refluxing in N NaOH and acidification to 5-iodo-2-thio-2,4(1H,3H)-quinazolinedione (V) (R = H, R1 = 5-I), m. 324-6° (decomposition). The known 3,5,2-ICl(NH2)C6H2CO2H was similarly transformed to give 46% II (R = 6-Cl,

R1 = 8-I), m. 176-8°; 62% III (R = 6-Cl, R1 = 8-I), m. 310° (decomposition), 47% 3,5,2-ICl(BzNHCSNH)C6H2CO2H, m. 181-3°, and 80% V (R = 6-Cl, R1 = 8-I), m. 320-2° (decomposition). Analogous procedures converted 3,5,2-IBr(H2N)C6H2CO2H into 88% II (R = 6-Br, R1 = 8-I), m. 155-7°; 43% III (R = 6-Br, R1 = 8-I), m. 314-16°; 71% acid 3,5,2-IBr(BzNHCSNH)C6H2CO2H, m. 172-4°; and 84% V (R = 6-Br, R1 = 8-I), m. 303-5° (decomposition).

IT **33115-22-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 33115-22-9 CAPLUS

CN Benzoic acid, 2,6-bis(3-benzoyl-2-thioureido)- (8CI) (CA INDEX NAME)



L5 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1966:84555 CAPLUS

DN 64:84555

OREF 64:15870g-h,15871a-h,15872a-b

TI Thioacyl isocyanates. III. Synthesis and properties of N-thiobenzoylureas

AU Goerdeler, Joachim; Schenk, Hainfried

CS Univ. Bonn, Germany

SO Chemische Berichte (**1966**), 99(3), 782-92
CODEN: CHBEAM; ISSN: 0009-2940

DT Journal

LA German

OS CASREACT 64:84555

GI For diagram(s), see printed CA Issue.

AB cf. CA 64, 5083d. Primary and secondary amines were added to PhCSNCO (I) to yield the corresponding PhCSNHCONRR' (II). PhCSNHCONH2 (III) was obtained by the selective saponification of II (R = Bz, R' = H) (IV). The adducts from hydrazines and amidines to I showed a strong tendency for cyclization. 2-Phenylthiazolidine-4,5-dione (V) (5 g.) in 30 cc. dry methylcyclohexane decomposed thermally by the method described previously gave a solution of I; except where noted otherwise, this solution from 5 g. V was used in all runs with I as the starting material. I treated dropwise with 1.2 g. absolute EtOH yielded 3 g. deep yellow PhCSNHCO2Et, 63° (decomposition) (AcOEt-ligroine). I with 1.92 g. BuNH2 in 5 cc. dry Et2O gave after chromatography on silica gel 0.7 g. PhCN, 1.5 g. PhCSNH2, 0.28 g. II (R = Bu, R' = H), m. 92° (1:15 CH2Cl2-methylcyclohexane), and 2 g. brown, odoriferous oil. I with 2.23 g. piperidine in 25 cc. dry methylcyclohexane stirred 15 min. gave 4.5 g. yellow-orange II [(RR' = (CH2)5] (VI), m. 130° (decomposition) (aqueous EtOH). VI (0.248 g.) in 30 cc. MeOH treated at room temperature with 20 cc. 0.1N AgNO3 gave 0.165 g.

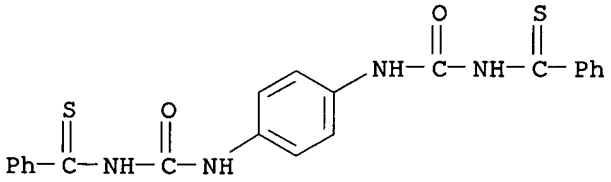
N,N-pentamethylene-N'-benzoylurea, m. 172° (decomposition) (dioxane-ligroine). I and 10 cc. Et2O treated with 2.6 g. cyclohexylamine in 20 cc. Et2O gave 2.9 g. II (R = cyclohexyl, R' = H) (VII), m. 150° (1:2 C6H6-petroleum ether). I with 2.45 g. PhNH2 in 10 cc. dry Et2O stirred 10 min. at room temperature gave 3.0 g. sulfur yellow II (R = Ph, R'= H) (VIII), m. 214° (decomposition) (EtOH). VIII refluxed 0.5 hr. with 0.1N AgNO3-MeOH yielded 88% PhNHCONHBz. 2,3,6-Triphenyl-2H-1,3,5-thiadiazin-4-one (3.44 g.) in 50 cc. dioxane and 1 cc. H2O refluxed 5 min. gave 2.42 g. yellow VIII, m. 216° (decomposition). I (from 3.82 g. V) treated at 0° with 10 cc. dry AcOEt and then slowly with 3.38 g. Ph2NH in 10 cc. dry Me2CO and stirred 0.5 hr. at 0° yielded 30% PhCSNHCONPh2 (IX), m. 137° (decomposition) (petroleum ether). IX (0.332 g.) and 0.138 g. o-O2NC6H4NH2 in 7 cc. dry C6H6 heated 5 min. at 40° and kept at room temperature overnight yielded 0.19 g. II (R = o-O2NC6H4, R' = H) (X). I with 3.23 g. p-MeOC6H4NH2 in 30 cc. dry Me2CO yielded 4.84 g. bright yellow II (R = p-MeOC6H4, R' = H) (XI), m. 179° (decomposition). XI decomposed at about 200° with gas evolution and formation of a colorless solid, m. 230°. XI (1 g.), 0.007 mole Et3N, and 25 cc. dry AcOEt treated with stirring at about 10° with 0.56 g. Br in 25 cc. dry AcOEt gave 0.5 g. light yellow XII (R = p-MeOC6H4), m. 155° (AcOEt). I with 3.62 g. o-O2NC6H4NH2 in 15 cc. dry Me2CO yielded 3.15 g. light brown-yellow X, m. 215° (decomposition) (C6H6). I and 4.6 g. 2,4-(O2N)2C6H3NH2 refluxed 1 hr. in 30 cc. dry Me2CO and stirred 20 min. yielded 0.9 g. II [R = 2,4-(O2N)2C6H3, R' = H], m. 225° (decomposition) (200:25 dioxane-H2O). I from 0.95 g. V treated dropwise with 0.59 g. p-H2NC6H4CN in 10 cc. absolute Me2CO and stirred 10 min. yielded 0.68 g. deep yellow II (R = p-NCC6H4, R' = H), m. 252° (decomposition) (PHCl). I from 1.91 g. V with 1.52 g. o-H2NC6H4CSNH2 in 10 cc. dry Me2CO gave 2.25 g. II (R = o-H2NCSC6H4, R' = H) (XIII), m. 198° (decomposition with formation of light yellow and red crystals). I from 1.9 g. V stirred 15 min. with 0.54 g. p-C6H4(NH2)2 in 10 cc. dry tetrahydrofuran yielded 1.05 g. yellow p-PhCSNHCONHC6H4NHCONHCSPh, decompose above 223° with the evolution of gas but without melting. I and 2.47 g. 2-aminopyridine in 15 cc. dry Me2CO stirred 15 min. gave 3.1 g. yellow II (R = 2-pridyl, R' = H), m 199° (decomposition)(AcOEt), which refluxed 4 hrs. with aqueous dioxane. gave a S-free solid, m. 211° (decomposition). I with 2.5 g. 2-aminopyrimidine in 30 cc. dry Me2CO gave similarly 4.5 g. pink II (R = 2-pyrimidinyl, R' = H), m. 238° (decomposition) (HCONMe2). I with 4.65 g. 5-amino-3-phenyl-1,2,4-thiadiazole in 30 cc. dry Me2CO stirred 15 min. gave 5.2 g. yellow II (R = 3-phenyl-1,2,4-thiadiazol-5-yl, R' = H), m. 252° (decomposition) (HCONMe2-tetrahydrofuran), which repptd. from AcNMe2 with petroleum ether gave orange prisms which change above 80° to the yellow form. I with 3.2 g. BzNH2 and 20 cc. dry Me2CO gave 1.3 g. IV, pink needles from C6H6, violet needles from Me2CO, m. 220° (decomposition). PhCSNH2 (46 g.) in 400 cc. dry C6H6 refluxed 3 hrs. with 49 g. BzNCO yielded 80 g. IV. 2,6-Diphenyl-1,3,5-thiadiazin-4-one (0.266 g.) in 5 cc. Me2CO heated briefly to 40° with a few drops H2O and 1 drop 2N HCl and kept 0.5 hr. at room temperature gave 0.27 g. IV. I and 3.6 g. BzNHNH2 in 25 cc. Me2CO yielded 2.6 g. yellow II (R = BzNH, R' = H) (XIV), m. 226° (decomposition) (C6H6). I from 2.5 g. V stirred 0.5 hr. with 1.57 g. PhCH:NNH2 in 10 cc. dry Me2CO yielded 0.82 g. light yellow II (R = PhCH:N, R' = H), m. 175° (decomposition). V (5 g.) and 4.0 g. H2NCH2CO2Et.HCl refluxed in methylcyclohexane gave 2.5 g. yellow PhCSNHCONHCH2CO2Et (XV), m. 138° (decomposition) (MeOH). XV (1 g.) and 10 cc. 4N NaOH heated about 10 min. at 40° and neutralized gave 0.85 g. light yellow PhCSNHCONHCH2CO2H, m. 258° with foaming (aqueous MeOH); it crystallized from aqueous MeOH with 0.5 mole H2O. I from 2.5 g. V

with 0.66 g. N2H4.H2O in 15 cc. dry tetrahydrofuran yielded 1.2 g. yellowish XVI (R = R' = H) (XVII), m. 321° (aqueous EtOH). XIV (0.3 g.) and 1 drop Me2CO in 5 cc. 4N NaOH refluxed 10 min. and neutralized gave 0.15 g. XVII, m. 320-4°. I with 2.9 g. PhNHNH2 in 5 cc. dry Et2O at -20° gave 2.23 g. yellow precipitate which heated in AcOH gave with the elimination of H2S a mixture of XVI (R = Ph, R' = H) (XVIII) and XVI (R = H, R' = Ph) (XXIX) which fractionally recrystd. from aqueous AcOH gave 1.66 g. XIX, m. 235°, and 0.1-0.2 g. XVIII, m. 278° (partial decomposition). I from 1.91 g. V in 20 cc. methylcyclohexane refluxed 15 min. with 1.84 g. (PhNH)2 in 10 cc. absolute tetrahydrofuran gave 0.86 g. XVI (R = R' = Ph), m. 242° (decomposition) (EtOH). I with 3.2 g. PhC(:NH)NH2 in 20 cc. dry Me2CO refluxed 5 min. yielded 2.1 g. PhC(:NH)N:CPhNHCONHC(:NH)Ph (XX), m. 240-4° (decomposition) (AcNMe2-AcOEt). XX (about 0.5 g.) fused gave with the evolution of PhCN and NH3 2,6-diphenyl-3,4-dihydro-1,3,5-triazin-4-one, m. 289° (C6H6N). I in 25 cc. methylcyclohexane with 5 g. PhC(:NH).NHPh in 20 cc. dry dioxane gave 2.4 g. 1,2,6-triphenyl-1,4-dihydro-1,3,5-triazin-4-one, m. 284° (decomposition) (tetrahydrofuran) with the formation of a solid, m. 232° with sublimation. XIII (0.78 g.) in 4 cc. dry Me2CO and 0.32 g. (COCl)2 in 10 cc. dry Me2CO gave at about 70° 0.63 g. red XXI, m. 163° (decomposition). IV (56.8 g.) in 100 cc. Me2CO and 2 l. 2N NaOH shaken 14 hrs. at room temperature and neutralized with AcOH yielded 30-1 g. lemon yellow III, m. 190° (decomposition) (AcOEt-ligroine). III (1.8 g.) in 10 cc. 2N NaOH treated gradually with 1.3 cc. 30% H2O2 gave XII (R = H), m. 204° (MeOH); it gives a blood red color with FeCl3-MeOH).

IT **5378-02-9**, Urea, 1,1'-p-phenylenebis[3-(thiobenzoyl)-
(preparation of)

RN 5378-02-9 CAPLUS

CN Urea, 1,1'-p-phenylenebis[3-(thiobenzoyl)- (7CI, 8CI) (CA INDEX NAME)



L5 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1966:36325 CAPLUS

DN 64:36325

OREF 64:6778b-d

TI Acylisothiocyanates. VI. Reactions of bis(acyl isothiocyanates) with diamines

AU Li, Yung-Hsien; Chen, Yao-Tsu

CS Ind. Coll., Kansu, Peop. Rep. China

SO Gaofenzi Tongxun (**1964**), 6(3), 206-12
CODEN: KFTTAR; ISSN: 0453-2880

DT Journal

LA Chinese

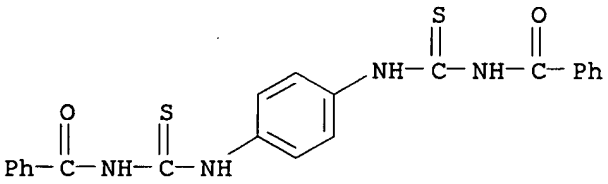
AB cf. Sci. Sinica (Peking) 12, 143(1963); CA 52, 19993b. Bis(acyl isothiocyanates) reacted readily with diamines to form linear polymers of acylthioureas with the structure [R'NHCSNHCORCONHCSNH]n. Ten such poly(acylthioureas) were synthesized by the reactions of adipic, azelaic, and terephthalic diisothiocyanates with hydrazine, ethylenediamine, H2N(CH2)6NH, p-phenylenediamine, and benzidine. The structure of the

polymers obtained was confirmed by elementary analysis, degradation examination, and uv and ir spectroscopy. These polymers were colored (yellow to orange) powders, sparingly soluble in common organic solvents, but readily soluble in HCONMe2 and cold concentrated H2SO4. The x-ray diffraction patterns showed that these polymers possessed fair crystallinity. The softening points of the polymers decreased with increasing length of the aliphatic C chain and increased when benzene nuclei were introduced into the chain. Four of these polymers had softening points >300°.

IT **70110-39-3**, Urea, 1,1'-p-phenylenebis[3-benzoyl-2-thio- (preparation of)

RN 70110-39-3 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1964:68587 CAPLUS

DN 60:68587

OREF 60:12118e-g

TI Poly(acylthioureas)

AU Chen, Yao-Tsu; Li, Yung-Hsien

CS Univ. Lanchow, Peop. Rep. China

SO Kexue Tongbao (Chinese Edition) (**1963**), (10), 50-2
CODEN: KHTPAT; ISSN: 0023-074X

DT Journal

LA Unavailable

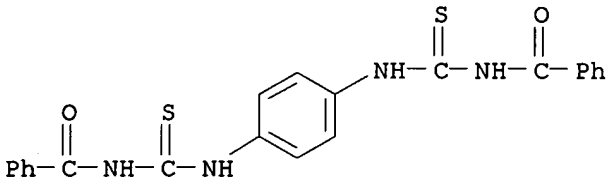
AB Diisothiocyanates of formula R(CONCS)2 (from diacyl chlorides and 2 moles NH4CNS) can add 2 moles of a primary amine, R'NH2, to form bis(acylthioureas), (R'NHCSNHCO)2R. For R' = Ph and R given, the m.ps. are: (CH2)4, 192-3°; p-C6H4 (I), 290°. If RCONCS (from RCOCl and 1 mole NH4CNS) was treated with diamines, R'(NH2)2, bis(acylthio-ureas) of type (RCONHCSNH)2R' were formed; e.g. for R =Ph and R' given, the m.ps. are: (CH2)6, 177-8°; p-C6H4, 237-8°. By hydrolysis with 10% NaOH, 80-90% of the original carboxylic acid and thiourea were recovered and identified by mixed-m.p. determination By keeping bis(acyl isothiocyanates) (3 kinds) and diamines (5 kinds) for 12 hrs. in anhydrous Me2CO, 10 poly(acyl-thioureas) were obtained containing the fundamental unit R'NH-CSNHCORCONHCSNH (R, R', m.p., and reduced viscosity at 30 ± 1° in 0.5 g./ml. concentrated H2SO4 given): (CH2)4, (CH2)2, 185° (decompose), 0.10; (CH2)4, (CH2)6, 180° (decompose), 0.18 (infrared absorption bands at 5.58-6.1, 6.3-6.65, 7.8-8.0, 8.6, and 13.58 μ); (CH2)7, (CH2), 125-9°, 0.10; (CH2)4, p-C6H4, m. >300°, 0, 20 (infrared absorption bands at 2-15 μ; ultra-violet absorption similar to that of I); (CH2)7, p-C6H4, 150-3°, 0.16; p-C6H4, -, m. >300°, 0.069; p-C6H4, (CH2)2, 210° (decompose), 0.12; p-C6H4, (CH2)6, 120-5°, 0.12; p-C6H4, p-C6H4, m.>300°, 0.11; and p-C6H4, p-C6H4C6H4, m.>300°, 0.13. The x-ray diagrams for most of the polymers indicate a crystalline state of linear order. The polymers are yellow or orange powders, insol. in most organic solvents, but

readily soluble in HCONMe2 or concentrated H2SO4. Introduction of a benzene ring raises the softening point. The dielec. constant ranges from 1010 to 1011 ohm-cm.

IT **70110-39-3**, Urea, 1,1'-p-phenylenebis[3-benzoyl-2-thio- (preparation of)

RN 70110-39-3 CAPLUS

CN Benzamide, N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis- (9CI) (CA INDEX NAME)



L5 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1961:111847 CAPLUS

DN 55:111847

OREF 55:21006d-f

TI Mono- and diisocyanates of p-cymene

AU Adellac, F.; Lora-Tamayo, M.; Soto, J. L.

CS Univ. Madrid

SO Anales real soc. espan. fis. y quim. (Madrid) (**1960**), 56B, 985-94

DT Journal

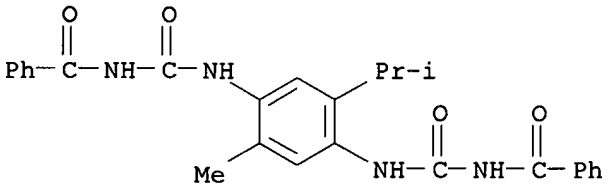
LA Unavailable

AB The reaction of phosgene with the appropriate amines was used to prepare the following isocyanates of cymene (substituents, b.p./mm., m.p., nD (t), and % yield given): 2-OCN, 76-7°/1, -, 1.5205 (22°), 70; 3-NCO, 76-7°/1, -, 1.5190 (22°), 60; 6-NO2, 2-NCO, 120-3°/1, 75°, 1.5425 (55°), 50; 2,6-(NCO)2 123-6°/2, 52-3°, 1.5517 (55°), 89; 2,5(NCO)2, 125-6°/2, 46-7°, 1.5394 (55°), 65; 3,5-(NCO)2, 110-12°/2, -, -, 81. The p-tolyl-, benzoyl-, phenylureas, and some of the methyl- and ethylurethans were prepared 2,3-Diamino-p-cymene (15 g.) in 300 ml. o-Cl2C6H4 treated with COCl2 several hrs., the mixture distilled, and cooled yielded 2-hydroxy-4-methyl-7-isopropylbenzimidazole, m. 260-1°, which with PCl5 yielded the 2-Cl derivative, m. 237-8°.

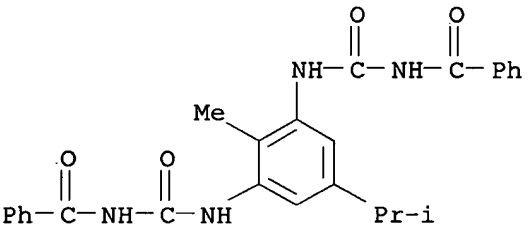
IT **124143-33-5**, Urea, 1,1'-[2-isopropyl-5-methyl-p-phenylene]bis[3-benzoyl- **124143-34-6**, Urea, 1,1'-(5-isopropyl-2-methyl-m-phenylene)bis[3-benzoyl- **124514-32-5**, Urea, 1,1'-[2-isopropyl-5-methyl-m-phenylene]bis[3-benzoyl- (preparation of)

RN 124143-33-5 CAPLUS

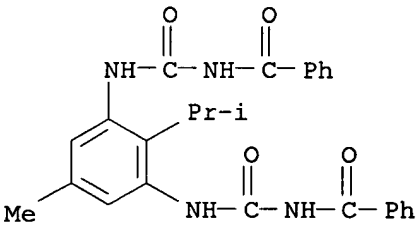
CN Urea, 1,1'-(2-isopropyl-5-methyl-p-phenylene)bis[3-benzoyl- (6CI) (CA INDEX NAME)



RN 124143-34-6 CAPLUS
CN Urea, 1,1'-(5-isopropyl-2-methyl-m-phenylene)bis[3-benzoyl- (6CI) (CA INDEX NAME)



RN 124514-32-5 CAPLUS
CN Urea, 1,1'-(2-isopropyl-5-methyl-m-phenylene)bis[3-benzoyl- (6CI) (CA INDEX NAME)



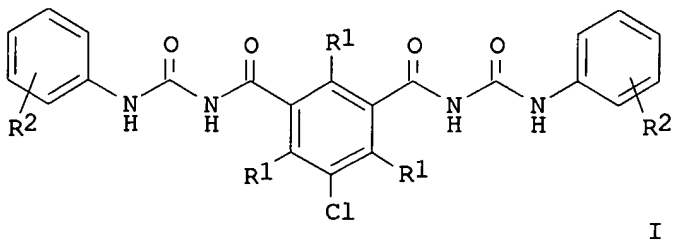
=> s l4 not l5
L6 4 L4 NOT L5

=> dis l6 1-4 bib abs

L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:980048 CAPLUS
DN 143:359432
TI Acyl Ureas as Human Liver Glycogen Phosphorylase Inhibitors for the Treatment of Type 2 Diabetes
AU Klabunde, Thomas; Wendt, K. Ulrich; Kadereit, Dieter; Brachvogel, Volker; Burger, Hans-Joerg; Herling, Andreas W.; Oikonomakos, Nikos G.; Kosmopoulou, Magda N.; Schmoll, Dieter; Sarubbi, Edoardo; Von Roedern, Erich; Schoenafinger, Karl; Defossa, Elisabeth
CS Scientific and Medical Affairs, Sanofi-Aventis Deutschland GmbH, Frankfurt am Main, D-65926, Germany

SO Journal of Medicinal Chemistry (2005), 48(20), 6178-6193
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
AB Using a focused screening approach, acyl ureas have been discovered as a new class of inhibitors of human liver glycogen phosphorylase (hlGPa). The x-ray structure of screening hit 1 (IC50 = 2 μM) in a complex with rabbit muscle glycogen phosphorylase b reveals that 1 binds at the AMP site, the main allosteric effector site of the dimeric enzyme. A first cycle of chemical optimization supported by x-ray structural data yielded derivative 21, which inhibited hlGPa with an IC50 of 23±1 nM, but showed only moderate cellular activity in isolated rat hepatocytes (IC50 = 6.2 μM). Further optimization was guided by (i) a 3D pharmacophore model that was derived from a training set of 24 compds. and revealed the key chemical features for the biol. activity and (ii) the 1.9 Å crystal structure of 21 in complex with hlGPa. A second set of compds. was synthesized and led to 42 with improved cellular activity (hlGPa IC50 = 53±1 nM; hepatocyte IC50 = 380 nM). Administration of 42 to anesthetized Wistar rats caused a significant reduction of the glucagon-induced hyperglycemic peak. These findings are consistent with the inhibition of hepatic glycogenolysis and support the use of acyl ureas for the treatment of type 2 diabetes.
RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:432244 CAPLUS
DN 142:155632
TI Synthesis of novel bis-benzoylphenylurea chitin inhibitors
AU Lin, Jun; Yang, Li-juan; Yan, Sheng-jiao; Li, Jun-feng; Liu, Fu-chu
CS Department of Applied Chemistry, Yunnan University, Kunming, 650091, Peop. Rep. China
SO Hecheng Huaxue (2004), 12(2), 117-119
CODEN: HEHUE2; ISSN: 1005-1511
PB Hecheng Huaxue Bianjibu
DT Journal
LA English
OS CASREACT 142:155632
GI



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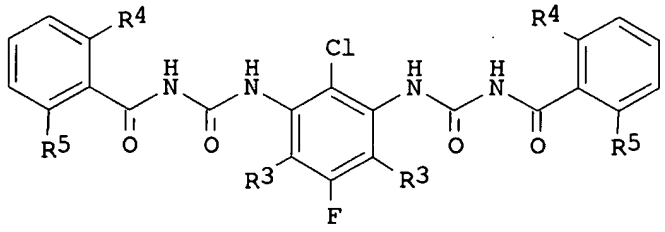

II

AB Twelve novel bis-benzoylphenylurea chitin inhibitor derivs., I (R1 = Cl, F; R2 = 4-Cl, 2-Cl, 4-Br) and II (R3 = H, CN, R4 = R5 = F, Cl; R3 = H, CN, R4 = Cl, R5 = H), have been synthesized in over 30 .apprx. 50% yield from chlorothalonil via sequential fluorine exchange, nitrile hydrolysis, decarboxylation and acylation reactions.

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:60456 CAPLUS
DN 140:128158
TI Preparation of N-[(phenylamino)carbonyl]benzamides as glycogenphosphorylase-A inhibitors for the treatment of diabetes
IN Defossa, Elisabeth; Kadereit, Dieter; Klabunde, Thomas; Burger, Hans-Joerg; Herling, Andreas; Wendt, Karl-Ulrich; Von Roedern, Erich; Schoenafinger, Karl
PA Aventis Pharma Deutschland GmbH, Germany
SO PCT Int. Appl., 75 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004007437	A1	20040122	WO 2003-EP6934	20030630

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,

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	EP 1523471	A1	20050420	EP 2003-740386	20030630
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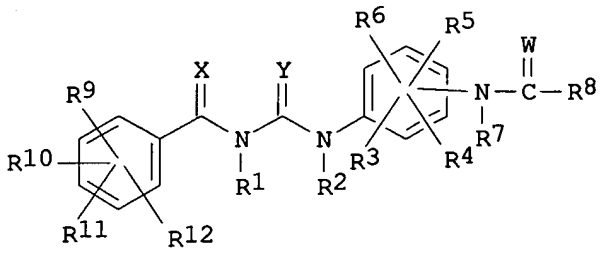
	US 2002-425600P	P	20021112		
	WO 2003-EP6934	W	20030630		

OS MARPAT 140:128158

GI



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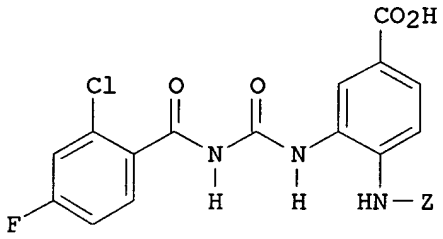

II

AB Title compds. I [W, X, Y = O, S; R9, R10, R11, R12 = H, halo, OH, etc.; R1, R2 = H, (un)substituted alkyl; R3, R4, R5, R6 = H, halo, OH, etc.; R7 = H, (un)substituted alkyl, e.g., OR13, NR14R15, etc.; R8 = NR18R19, OR20; R13 = H, alkyl, alkenyl, etc.; R14, R15 = H, (un)substituted alkyl; R18, R19 = H, alkyl, alkenyl, etc.; R20 = alkyl, alkenyl, alkynyl, etc.] and their pharmaceutically acceptable salts were prepared For example, condensation of benzamine II (Z= H), e.g., prepared from 2-chloro-4-fluorobenzamide in 2-steps, and carbonochloridic acid Me ester afforded benzamide II (Z = COMe) in 55% yield. In glycogenphosphorylase-A (GPa) inhibition assays, 23-examples of compds. I, at 10 μM, exhibited 48-100% inhibition of GPa activity, e.g., benzamide II (Z = COMe) displayed 53% enzyme inhibition. Compds. I were claimed useful as antidiabetic agents.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:790618 CAPLUS
DN 140:339042
TI Synthesis and activities of aroyl(aryloxyacetyl) aryldithiourea derivatives as plant growth regulators
AU Wu, Wei-lin; Ye, Wen-fa; Du, Zi-xiu; Wang, Yan-gang

CS Huaihua Medical College, Huaihua, 418000, Peop. Rep. China
SO Hecheng Huaxue (2003), 11(4), 310-314
CODEN: HEHUE2; ISSN: 1005-1511
PB Hecheng Huaxue Bianjibu
DT Journal
LA Chinese
OS CASREACT 140:339042
AB By the use of solid-liquid phase transfer catalyst, 15 title compds. with diacylthiourea structure were synthesized from substituted aryloxyacetic acid or aromatic acid and aromatic diamine. For example, reaction of 3-MeC6H4CONCS, prepared from 3-methylbenzoic acid, with p-phenylenediamine gave 83% N,N'-[1,4-phenylenebis(iminocarbonothioyl)]bis[3-methylbenzamide]. The test of their biol. activities shows that most compds. have good plant growth regulating activities and a few of them are more active than indoleacetic acid.

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	126.25	293.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-19.50	-19.50

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